

# AUDIO VIDEO SURROUND RECEIVER

## KRF-V4530D

## KRF-V5030D/V5030DE/V5030D-S

## KRF-V6030D/V6030DE/V6030D-S

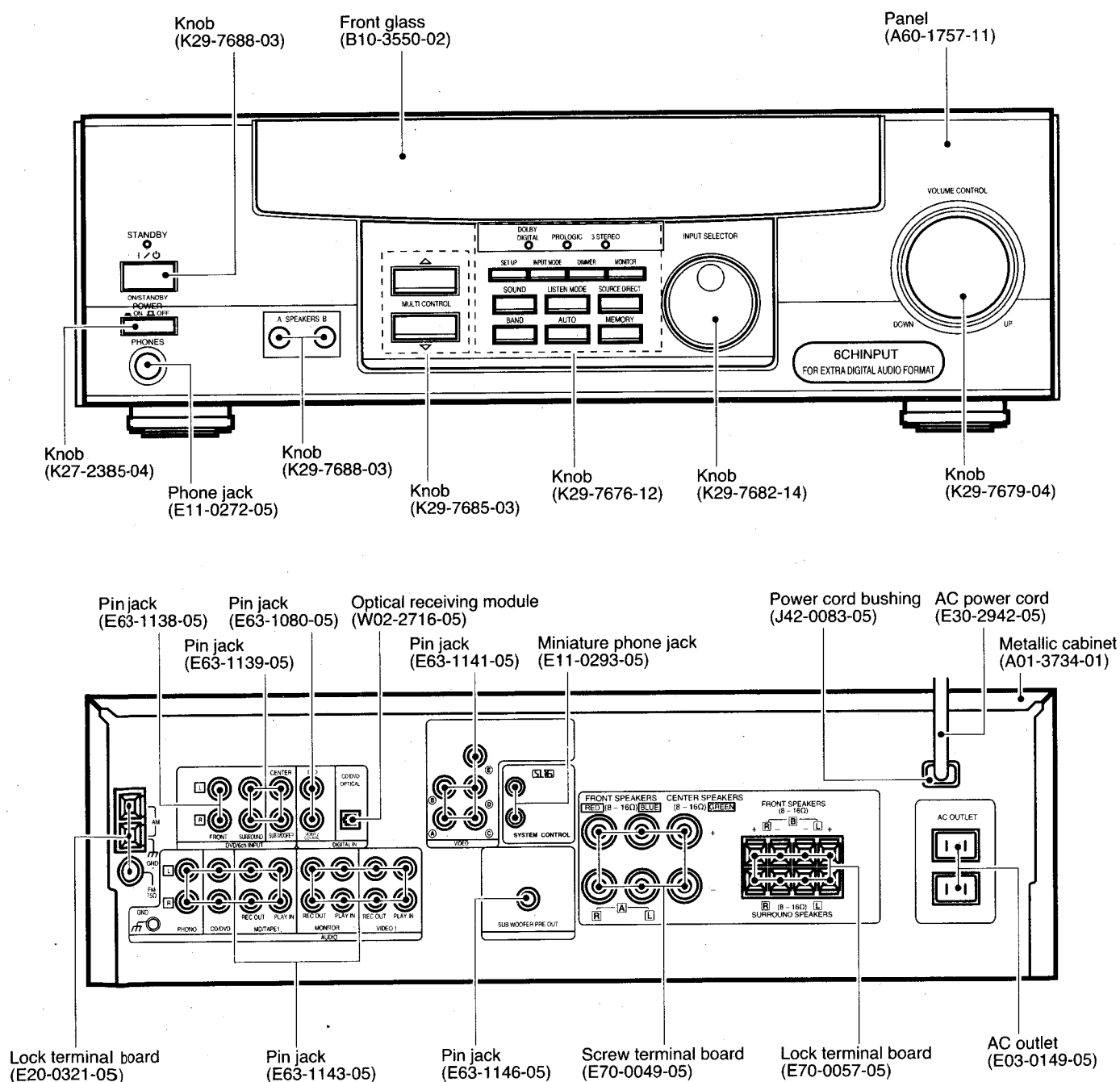
## VR-405/406/414

# SERVICE MANUAL

# KENWOOD

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Note: On circuit description, please refer to KRF-V7030D service manual(B51-5598-00).



Illust. is KRF-V6030D-S(M).



# KRF-V4530D/V5030D/V6030D/VR-405/406/414

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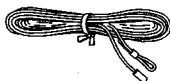
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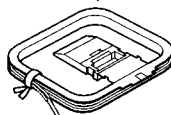
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### Accessories

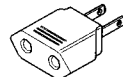
FM indoor antenna (1)  
(T90-0836-05)



AM loop antenna (1)  
(T90-0852-05)



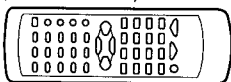
\*AC plug adaptor (1)  
(E03-0115-05)



\*Use to adapt the plug on the power cord to the shape of the wall outlet. (Accessory only for regions where use is necessary.)

For VR-406 and KRF-V6030D

Remote control unit (1)  
(A70-1330-05): RC-R0609  
(A70-1331-05): RC-R0610(E type)

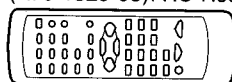


Battery cover (A09-1178-08)

Batteries (R6/AA) (2)



For VR-405, VR-414, KRF-V5030D, and KRF-V4530D  
Remote control unit (1)  
(A70-1328-05): RC-R0509  
(A70-1329-05): RC-R0510(E,T type)



Battery cover (A09-1178-08)



### Cautions

Copy from instruction manual.

The manual covers the VR-407, VR-406, VR-405, VR-414, KRF-V7030D, KRF-V6030D, KRF-V5030D, and KRF-V4530D. Items such as functions, number of jacks, and remote control details differ somewhat between these models. To confirm the functions available on the model you have purchased, refer to the table below.

Model name	Remote Control	Terminal		
		Speaker out	VIDEO 3 jacks	Front input
VR-407 KRF-V7030D	RC-R0609	2 systems (A, B)	Equipped	Equipped
VR-406 KRF-V6030D	RC-R0609	2 systems (A, B)	Not equipped	Not equipped
VR-405/414 KRF-V5030D/ V4530D	RC-R0509	1 system	Not equipped	Not equipped

This manual is divided into four sections, Preparations, Operations, Other, and Remote Control.

**Remote Control (Separate booklet) (VR-407/VR-406/KRF-V7030D/KRF-V6030D only)**  
Includes the "Quick Start Guide," which shows you how to operate other components using the remote control, as well as a detailed explanation of all remote control operations. Once you have registered your components with the proper setup codes, you'll be able to operate both this receiver and your other AV components (TV, VCR, DVD player, LD player, CD player, etc.) using the remote control supplied with this receiver.

#### VIDEO 2/MONITOR jacks (for VR-406/405/414/KRF-V6030D/V5030D/V4530D)

The receiver's VIDEO 2/MONITOR jacks can be used in two different ways. Make the appropriate setting for the component connected to the jack when the receiver is turned on.

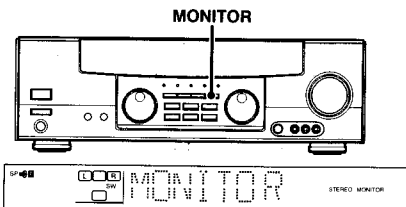
##### Use as a VIDEO 2 jack

You can connect a video deck or the like to these jacks and perform video playback and recording. The initial factory setting is "VIDEO 2".

##### Use as a MONITOR jack

You can connect a cassette deck or the like to these jacks and make use of the deck's monitoring function during recording. Alternately, you can connect a graphic equalizer to these jacks to apply compensation to the music signal.

To use the VIDEO 2/MONITOR jacks as MONITOR jacks, hold down the MONITOR key of the main unit for more two seconds so that the indication shown below appears.



- At the same time the setting is switched to "MONITOR," the audio input source switches to tuner and the video input source switches to VIDEO 1.
- To switch the setting back to "VIDEO 2," once again hold down the MONITOR key for two seconds or more.

#### Memory back up function

Please note that the following items will be deleted from the unit's memory if the power cord is disconnected from the AC outlet for approximately 3 days.

- Power mode.
- Input selector settings.
- Device preset.
- Picture output.
- Speaker ON/OFF
- Volume level.
- BASS, TREBLE, INPUT level.
- Subwoofer ON/OFF.
- Dimmer level.
- Monitor ON/OFF.
- MD/TAPE settings.
- 6CH/2CH input setting.
- Listen mode setting.
- Speaker settings.
- Input mode setting.
- Midnight mode setting.
- Broadcast band.
- Frequency setting.
- Preset stations.
- Tuning mode.

#### Resetting the Microcomputer

If the microcomputer may malfunction (unit cannot be operated, or shows an erroneous display) if the power cord is unplugged while the power is ON, or due to some other external factor. If this happens, execute the following procedure to reset the microcomputer and return the unit to its normal operating condition.

- Please note that resetting the microcomputer will clear the contents of the memory and returns the unit to the state it was in when it left the factory.

#### For U.S.A. and Canada

Unplug the power cord from the wall outlet, then plug it back in while holding down the POWER key.

#### For other countries

With the power cord plugged in, turn the POWER key OFF. Then, while holding down the ON/STANDBY key, press POWER.

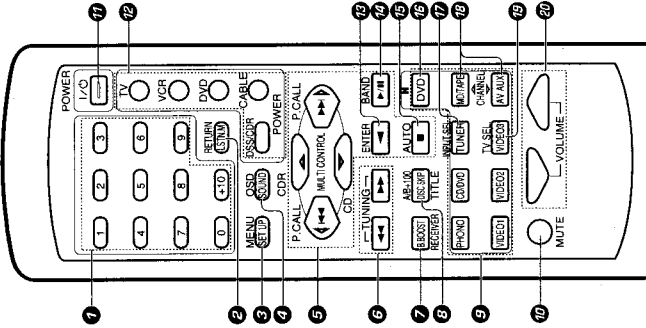
#### Model vs PCB

MODEL	ABB	POWER SUPPLY	POWER AMP	PREAMP	DISPLAY
KRF-V4530D	E4	-	X07-3142-71	X08-3010-11	X14-7122-72
KRF-V5030D	E1	-	X07-3142-71	X08-3010-11	X14-7122-72
KRF-V5030D	T5	-	X07-3140-51	X08-3010-11	X14-7122-72
KRF-V5030D	Y5	X00-3000-20	X07-3142-91	X08-3010-11	X14-7120-22
KRF-V5030D-S	E3	-	X07-3142-71	X08-3010-11	X14-7122-72
KRF-V5030D-S	I5	X00-3000-20	X07-3140-21	X08-3010-11	X14-7120-22
KRF-V5030D-S	M5	X00-3000-20	X07-3140-21	X08-3010-21	X14-7120-22
KRF-V5030D-S	X5	-	X07-3140-71	X08-3010-11	X14-7120-72
KRF-V5030DE	E2	-	X07-3142-71	X08-3010-11	X14-7122-72
VR-405	K5	-	X07-3140-10	X08-3010-10	X14-7120-11
VR-405	P5	-	X07-3140-10	X08-3010-10	X14-7120-11
VR-414	K4	-	X07-3140-11	X08-3010-10	X14-7120-11
VR-414	P4	-	X07-3140-11	X08-3010-10	X14-7120-11
KRF-V6030D	E6	-	X07-3132-72	X08-3010-10	X14-7122-71
KRF-V6030D-S	I6	X00-3000-20	X07-3130-22	X08-3010-10	X14-7120-21
KRF-V6030D-S	M6	X00-3000-20	X07-3130-22	X08-3010-21	X14-7120-21
KRF-V6030D-S	X6	-	X07-3130-72	X08-3010-10	X14-7120-71
KRF-V6030DE	E7	-	X07-3132-72	X08-3010-10	X14-7122-71
VR-406	K6	-	X07-3130-11	X08-3010-10	X14-7120-10
VR-406	P6	-	X07-3130-11	X08-3010-10	X14-7120-10

# KRF-V4530D/V5030D/V6030D/VR-405/406/414

## CONTROLS

Remote control unit (RC-R0609) (VR-407/406/KRF-V7030D/V6030D)

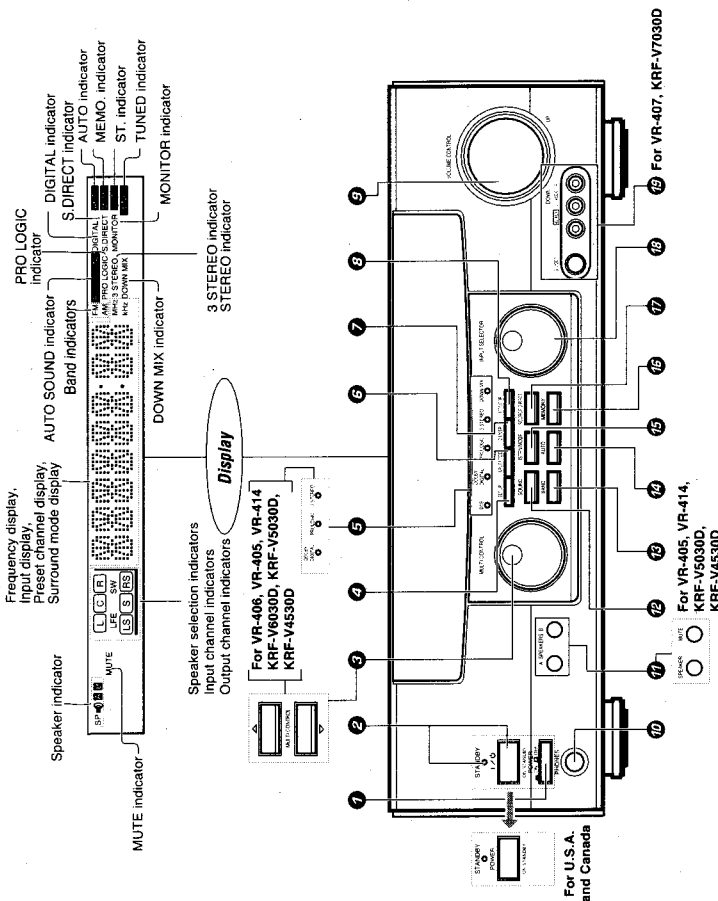


There are some cases in which keys (or knobs) that have the same function on the receiver and on the remote control have different names. In the instructions of this manual, if the names of corresponding keys (or knobs) on the receiver and remote control are different, the name of the remote control key is indicated in parentheses.

- Use to turn the other components on and off.
- ENTER key**  
Use to operate other components.
- ← key**  
If tape is selected as the input source, this key functions as the play key for side B of the cassette (the side facing away from the front of the deck).
- BAND key**  
Use to select the broadcast band.
- ▶ key**  
If CD is selected as the input source, this key functions as the play/pause key. If MD is selected as the input source, this key functions as the play key.
- AUTO key**  
Use to select the auto tuning mode.
- key**  
If CD or MD is selected as the input source, this key functions as the stop key.
- II key**  
Use to operate other components.
- INPUT SEL. key**  
Use to operate other components.
- CHANNEL 2/3 keys**  
Use to select the channel.
- TV SEL. key**  
Use to operate other components.
- VOLUME keys**  
Use to adjust the receiver volume.

- B. BOOST key**  
Use to select the maximum adjustment setting for the low frequency range.
- RECEIVER key**  
Use to return to the operation of the receiver.
- DISC SKIP key**  
If CD is selected as the input source, this key functions as the multi-CD player disc skip key.
- A/B key**  
If TAPE is selected as the input source, this key (A and B) of a double cassette deck.
- +100 key**  
Use to select the disc number with the multi-CD player.
- TITLE key**  
Use to operate other components.
- INPUT SELECTOR keys (DVD, PHONO, CD/DVD, TUNER, MD/TAPE, VIDEO1, VIDEO2, VIDEO3, AV AUX)**  
Selects the input and sets the remote control to operate the component registered to the respective input.
- MUTE key**  
Use to temporarily mute the sound.
- POWER key**  
Use to turn the receiver on and off.
- POWER key (TV, VCR, DVD, DSS/CD, CABLE)**

- Numeric keys**  
Provide functions identical to those of the original remote control supplied with the component you are controlling.
- LSTN.M key**  
Use to select the listening mode.
- RETURN key**  
Use to operate other components.
- SET UP key**  
Use to select the surround sound settings.
- MENU key**  
Use to operate other components.
- SOUND key**  
Use to adjust the sound quality and ambience effects.
- OSD key**  
Use to operate other components.
- MULTI CONTROL keys**  
Used to make a variety of settings.
- P.CALL keys**  
Use to operate other components.
- IF keys**  
If tuner is selected as the input source, these keys function as P.CALL keys.
- TUNING keys**  
Use to operate the tuner or selected component.



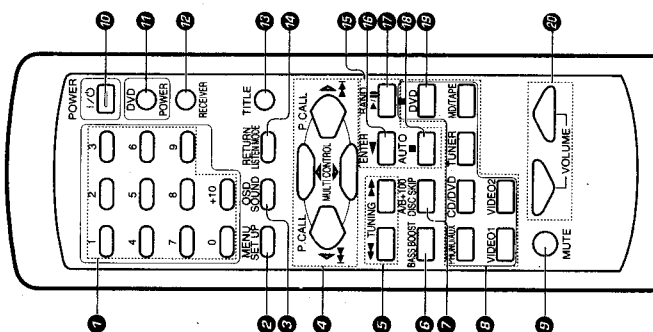
- POWER key**  
(Except for U.S.A. and Canada)  
Use to turn the main power ON/OFF.
- POWER key**  
(For U.S.A. and Canada)  
Use to turn the power ON/OFF.
- STANDBY (I/O) key**  
(Except for U.S.A. and Canada)  
Use to switch the power ON/STANDBY when the POWER is turned ON.
- STANDBY indicator**  
(For VR-407/KRF-V7030D)  
Use to select the surround sound settings.
- MULTI CONTROL keys**  
(For VR-406/405/414/KRF-V6030D/V5030D/V4530D)  
Used to make a variety of settings.
- SET UP key**  
Use to monitor the surround sound settings.
- Surround indicators**  
• **DTS indicator**  
Lights when the receiver is in the DTS mode.
- MONITOR key**  
Use to monitor the source that is connected to the MONITOR jack.
- VOLUME knob**  
Use for headphone listening.
- INPUT SELECTOR knob**  
Use to select the input source.
- AUX IN S VIDEO/VIDEO/AUDIO L/R**  
(For VR-407/KRF-V7030D)

**Standby mode**  
While the standby indicator of the unit is lit, a small amount of current is flowing into the unit's internal circuitry to back up the memory. This condition is referred to as the standby mode of the unit. While the unit is in the standby mode, it can be turned ON from the remote control unit.

# KRF-V4530D/V5030D/V6030D/VR-405/406/414

## CONTROLS

Remote control unit (RC-P0509) (VR-405/414/KRF-V5030D/V4530D)

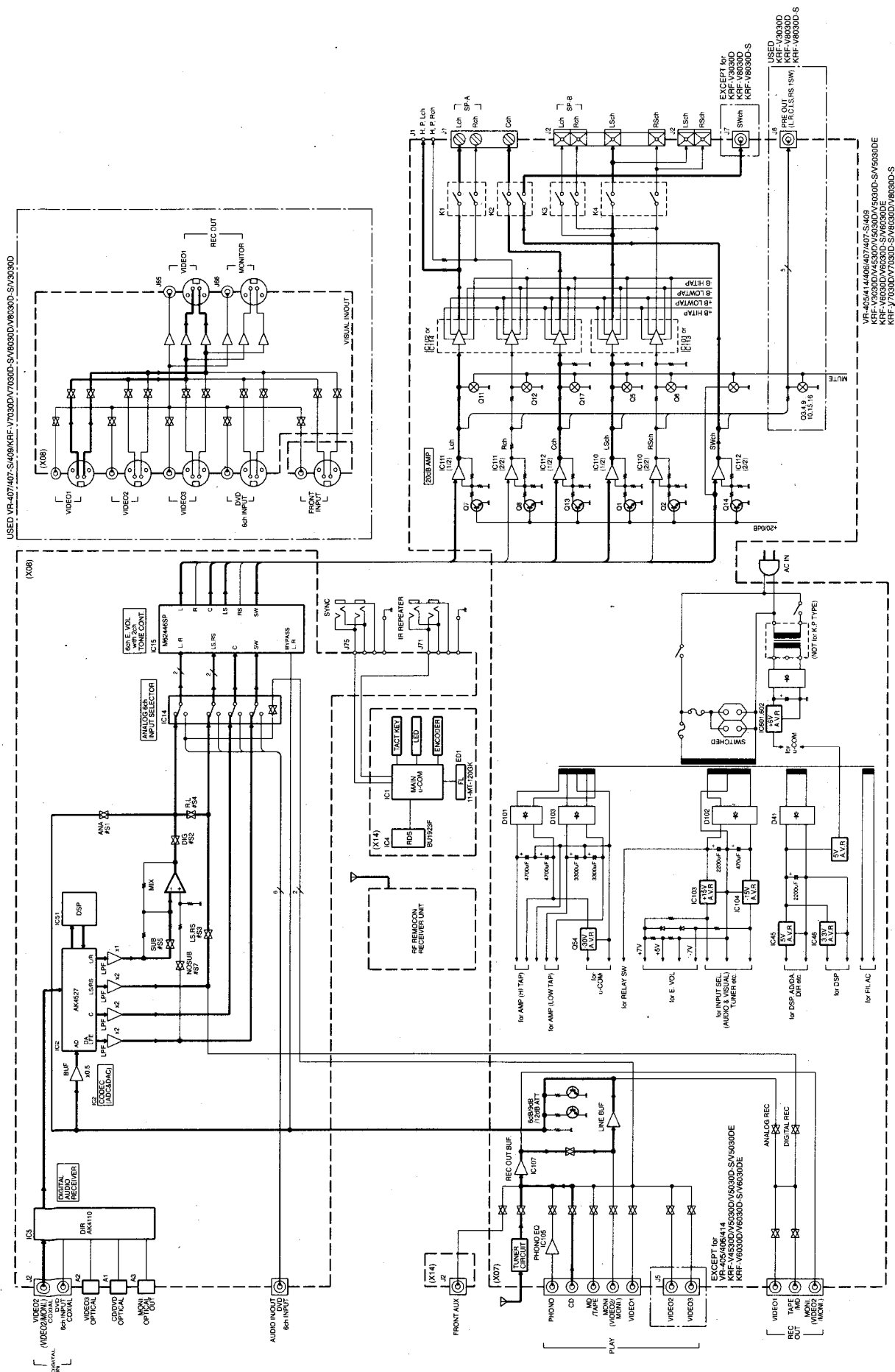


- 1 **Numeric keys**  
If CD or MD is selected as the input source, these keys function as numeric keys. If tuner is selected as the input source, these keys are used to call up station presets.
- 2 **SET UP key**  
Use to select the surround sound settings.
- 3 **MENU key**  
Use to operate other components.
- 4 **SOUND key**  
Use to adjust the sound quality and ambience effects.
- 5 **OSD key**  
Use to operate other components.
- 6 **MULTI CONTROL keys**  
Used to make a variety of settings.  
**P. CALL <V> keys**  
If tuner is selected as the input source, these keys function as P. CALL keys.  
**<V> keys**  
If CD or MD is selected as the input source, these keys function as search keys.  
If tuner is selected as the input source, these keys function as tuning keys.  
**BASS BOOST key**  
Use to select the maximum adjustment setting for the low frequency range.
- 7 **DISC SKIP key**  
If CD is selected as the input source, this key functions as the multi-CD player disc skip key.  
**A/B key**  
If TAPE is selected as the input source, this (A and B) of a double cassette deck.  
**+100 key**  
Use to select the disc number with the multi-CD player.
- 8 **INPUT SELECTOR keys (DVD, PHONO/VIDEO1, VIDEO2)**  
Selects the inputs and sets the remote control to operate the component registered at the respective input.
- 9 **MUTE key**  
Use to temporarily mute the sound.
- 10 **POWER key**  
Use to turn the receiver on and off.
- 11 **DVD key**  
Used to operate DVD player.  
For details, refer to the instruction manual on your DVD player.
- 12 **RECEIVER key**  
Use to return to the operation of the receiver.
- 13 **TITLE key**  
Use to operate other components.
- 14 **LISTEN MODE key**  
Use to select the listening mode.
- 15 **RETURN key**  
Use to operate other components.
- 16 **Component operation keys**  
Use these keys to operate other components with system control connections to the receiver.  
**<V> key**  
If tape is selected as the input source, this key functions as the play key for side B of the cassette (the side facing away from the front of the deck).  
**<V> key**  
If CD is selected as the input source, this key functions as the play/pause key.  
If MD is selected as the input source, this key functions as the play key.
- 17 **<V> key**  
If CD or MD is selected as the input source, this key functions as the stop key.
- 18 **ENTER key**  
Use to operate other components.
- 19 **BAND key**  
If tuner is selected as the input source, this key functions as the band selector key.
- 20 **AUTO key**  
If tuner is selected as the input source, this key functions as the AUTO key.
- 21 **II key**  
Use to operate other components.
- 22 **VOLUME keys**  
Use to adjust the receiver volume.



# KRF-V4530D/V5030D/V6030D/VR-405/406/414

## BLOCK DIAGRAM



# KRF-V4530D/V5030D/V6030D/VR-405/406/414

## CIRCUIT DESCRIPTION

Pin description of microprocessor : X14,IC1(MN101C35DRA)

Pin No.	Pin Name	I/O	Description
1	S. DATA	I/O	Serial data signal.
2	S.BUS	I/O	Serial busy signal.
3	SEL. ST1	O	Strobe output to input selector ( IC106).
4	SEL/VOL/PLL DT	O	Data output to selector,volume and PLL IC.
5	SEL/VOL/PLL CLK	O	Clock output to selector,volume and PLL IC.
6	SEL. ST2	O	Strobe 2 output to input selector ( IC109).
7	PLL. CE	O	PLL chip enable.
8	Vdd (+5v)	-	Power supply.
9	OSC OUT	O	8MHz clock output.
10	OSC IN	I	8MHz clock input.
11	Vss	-	Connected to ground.
12	X IN	-	Connected to ground.
13	X OUT	-	No used.
14	MMCD	-	Connected to ground.
15	Vref-	-	Connected to ground.
16,17	KEY2,KEY1	I	Input terminal of key1 and key2.
18	MODEL TYPE	I	Discrimination port of models.
19	TH. SENS	I	No used.
20	PROTECT	I	Detection port of protection signal 1.
21	PROTECT2	I	Detection port of protection signal 2.
22	S.LEVEL/CH SPACE	I	RDS S level and channel space changeover.
23	PLL DO	I	RDS PLL data signal input.
24	Vref+	-	Reference voltage of AD converter..
25	CE	I	Chip enable.
26	RESET	I	Reset signal input.
27	T. MUTE	O	Muting signal output to tuner.
28	RF ST	O	CE signal output of RF receiver IC.
29	RF DT	O	Data signal output of RF receiver IC.
30	RF CLK	O	Clock signal output of RF receiver IC.
31	VOL.ST	O	Latch output of electric volume.
32	DSP INTREQ	I/O	Detection port of DSP INTREQ.
33	DTS DET	I	Detection port of DTS data.
34	REMOCON	I	Remote control signal input.
35	DIR ERR	I	Detection port of DIR error signal.
36	DZF	I	Detection port of CODEC zero input.
37	RDS.CLK	I	RDS clock input.
38	RDS.DAT/CE2	I	RDS data input./u-COM chip enable 2.
39	DSP/DIR/CORDEC CDIN	O	Serial data output.
40	DSP/DIR/CDOUT	I	Serial data input.
41	DSP/DIR/CORDEC CCLK	O	Clock output to IC2, IC5 and IC51on X08.
42	DSP CS	O	DSP chip select.
43	DSP PD	O	DSP power down.
44	DIR CODEC CS	O	CODEC chip select.
45	DIR CODEC PD	O	DIR CODEC power down.
46	NO USE	-	No used.
47-57	1G-11G	O	FL grid control(1G-11G).
58-74	P1-P17	O	FL segment control(P1-P17).
75	PACK CONT.	O	Power pack control.
76	LIMMITER	O	Control port of A class power supply.
77	REAR RE	O	Relay control terminal of surround speaker.
78	CENTER RE	O	Relay control terminal of center speaker.
79	FB RE	O	Relay control terminal of front B speaker.
80	FA RE	O	Relay control terminal of front A speaker.

# KRF-V4530D/V5030D/V6030D/VR-405/406/414

## CIRCUIT DESCRIPTION

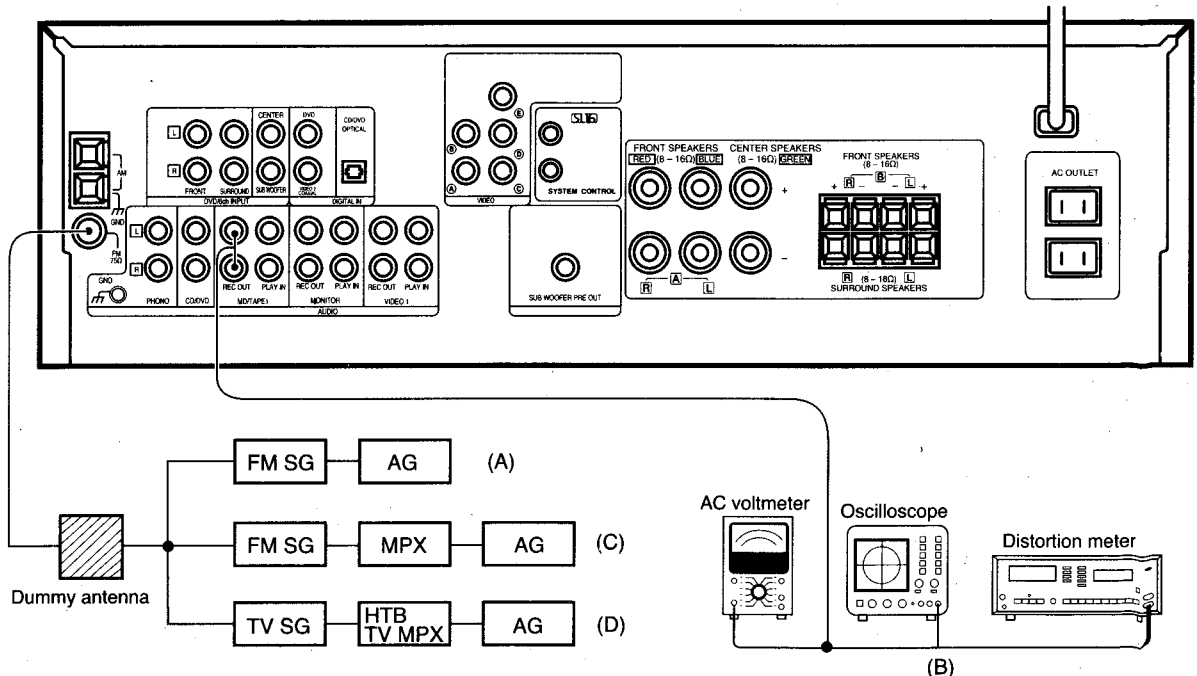
Pin No.	Pin Name	I/O	Description
81	POWER RE	O	Power relay control.
82	CS5. 1(DOWN MIX)LED	O	Control terminal of CS5.1(DOWN MIX) LED.
83	3 STEREO LED	O	Control terminal of 3 STEREO LED.
84	DTS LED	O	Control terminal of DTS LED.
85	DOLBY DIGITAL LED	O	Control terminal of DOLBY DIGITAL LED.
86	PROLOGIC LED	O	Control terminal of PROLOGIC LED.
87	STANDBY LED	O	Control terminal of STANDBY LED.
88	PRE OUT MUTE	O	Muting control terminal of pre out.
89	20dB ATT	O	20dB attenuation(volume) control terminal.
90	A.MUTE	O	Audio muting signal output.
91	ABOOT	O	EPROM CS.
92	MULTI. ENC CW	I	Multi cont. encoder signal input(clockwise).
93	MULTI. ENC CCW	I	Multi cont. encoder signal input(counterclockwise).
94	SEL. ENC CW	I	Selector encoder signal input(clockwise).
95	SEL. ENC CCW	I	Selector encoder signal input(counterclockwise).
96	VOL. ENC CW	I	Volume encoder signal input(clockwise).
97	VOL. ENC CCW	I	Volume encoder signal input(counterclockwise).
98	STEREO	I	Stereo (tuner) signal input.
99	SD	I	Tuner (SD)detector input.
100	Vpp(-30V)	-	FL power supply(-35V).

# KRF-V4530D/V5030D/V6030D/VR-405/406/414

## ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	RECEIVER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
<b>FM SECTION : EXCEPT E,T type</b>		<b>SELECTOR : FM</b>					
1	DISCRIMINATOR (K,P only)	(A) 98.0MHz 1kHz, ±75kHz dev. 70dBf (ANT. input)	Connect a DC voltmeter between CN4 ① and CN4 ② (X07)	98.0MHz	L4 (X07)	0V	
2	TUNING LEVEL	(A) 98.0MHz MONO 1kHz, ±75kHz dev. 29.2dBf (ANT. input)	(B)	MONO 98.0MHz	VR1 (X07)	Adjust VR1 and stop at the point where ED1 (TUNED) goes on.	
<b>FM SECTION : E,T type only</b>		<b>SELECTOR : FM ※ Adjust NO.1 and NO.2 repeat.</b>					
1	DISCRIMINATOR	(A) 98.0MHz 1kHz, ±40kHz dev. 70dBf (ANT. input)	Connect a DC voltmeter between CN4 ① and CN4 ② (X07)	MONO 98.0MHz	L4 (X07)	0V	
2	DISTORTION (MONO)	(A) 98.0MHz 1kHz, ±40kHz dev. MONO 70dBf (ANT. input)	(B)	MONO 98.0MHz	L5 (X07)	Minimum distortion	
3	DISTORTION (STEREO)	(C) 98.0MHz 1kHz, ±40kHz dev. Selector : L or R Pilot : ±6kHz dev. 70dBf (ANT. input)	(B)	AUTO 98.0MHz	IFT (FRONT END : A1)	Minimum distortion (L or R)	
4	TUNING LEVEL	(A) 98.0MHz MONO 1kHz, ±40kHz dev. 29.2dBf (ANT. input)	(B)	MONO 98.0MHz	VR1 (X07)	Adjust VR1 and stop at the point where ED1 (TUNED) goes on.	

## SYSTEM CONNECTIONS



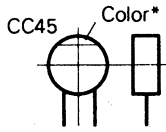
# KRF-V4530D/V5030D/V6030D/VR-405/406/414

## PARTS DESCRIPTIONS

### CAPACITORS

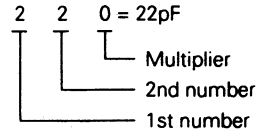
CC 45 TH 1H 220 J  
1 2 3 4 5 6

- 1 = Type ... ceramic, electrolytic, etc. 4 = Voltage rating  
2 = Shape ... round, square, ect. 5 = Value  
3 = Temp. coefficient 6 = Tolerance



#### Capacitor value

010 = 1pF  
100 = 10pF  
101 = 100pF  
102 = 1000pF = 0.001μF  
103 = 0.01μF



#### Temperature coefficient

1st Word	C	L	P	R	S	T	U
Color*	Black	Red	Orange	Yellow	Green	Blue	Violet
ppm/°C	0	-80	-150	-220	-330	-470	-750

2nd Word	G	H	J	K	L
ppm/°C	±30	±60	±120	±250	±500

Example : CC45TH = -470 ± 60ppm/°C

#### Tolerance (More than 10pF)

Code	C	D	G	J	K	M	X	Z	P	No code
(%)	±0.25	±0.5	±2	±5	±10	±20	+40 -20	+80 -20	+100 -0	More than 10μF - 10 ~ +50 Less than 4.7μF -10 ~ +75

#### (Less than 10pF)

Code	B	C	D	F	G
(pF)	±0.1	±0.25	±0.5	±1	±2

#### Voltage rating

2nd word	A	B	C	D	E	F	G	H	J	K	V
1st word											
0	1.0	1.25	1.6	2.0	2.5	3.15	4.0	5.0	6.3	8.0	-
1	10	12.5	16	20	25	31.5	40	50	63	80	35
2	100	125	160	200	250	315	400	500	630	800	-
3	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	-

#### Chip capacitors

(EX) C C 7 3 F S L 1 H 0 0 0 J  
1 2 3 4 5 6 7

(Chip) (CH, RH, UJ, SL)

(EX) C K 7 3 F F 1 H 0 0 0 Z  
1 2 3 4 5 6 7

(Chip) (B, F)

Refer to the table above.

1 = Type  
2 = Shape  
3 = Dimension  
4 = Temp. coefficient  
5 = Voltage rating  
6 = Value  
7 = Tolerance

#### Dimension (Chip capacitors)

Dimension code	L	W	T
Empty	5.6 ± 0.5	5.0 ± 0.5	Less than 2.0
A	4.5 ± 0.5	3.2 ± 0.4	Less than 2.0
B	4.5 ± 0.5	2.0 ± 0.3	Less than 2.0
C	4.5 ± 0.5	1.25 ± 0.2	Less than 1.25
D	3.2 ± 0.4	2.5 ± 0.3	Less than 1.5
E	3.2 ± 0.2	1.6 ± 0.2	Less than 1.25
F	2.0 ± 0.3	1.25 ± 0.2	Less than 1.25
G	1.6 ± 0.2	0.8 ± 0.2	Less than 1.0

### RESISTORS

#### Chip resistor (Carbon)

(EX) R K 7 3 E B 2 B 0 0 0 J  
1 2 3 4 5 6 7

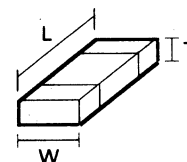
(Chip) (B, F)

#### Carbon resistor (Normal type)

(EX) R D 1 4 B B 2 C 0 0 0 J  
1 2 3 4 5 6 7

- 1 = Type 5 = Rating wattage  
2 = Shape 6 = Value  
3 = Dimension 7 = Tolerance  
4 = Temp. coefficient

#### Dimension



#### Dimension (Chip resistor)

Dimension code	L	W	T
E	3.2 ± 0.2	1.6 ± 0.2	1.0
F	2.0 ± 0.3	1.25 ± 0.2	1.0
G	1.6 ± 0.2	0.8 ± 0.2	0.5 ± 0.1

#### Rating wattage

Code	Wattage	Code	Wattage	Code	Wattage
1J	1/16W	2C	1/6W	3A	1W
2A	1/10W	2E	1/4W	3D	2W
2B	1/8W	2H	1/2W		

## 7



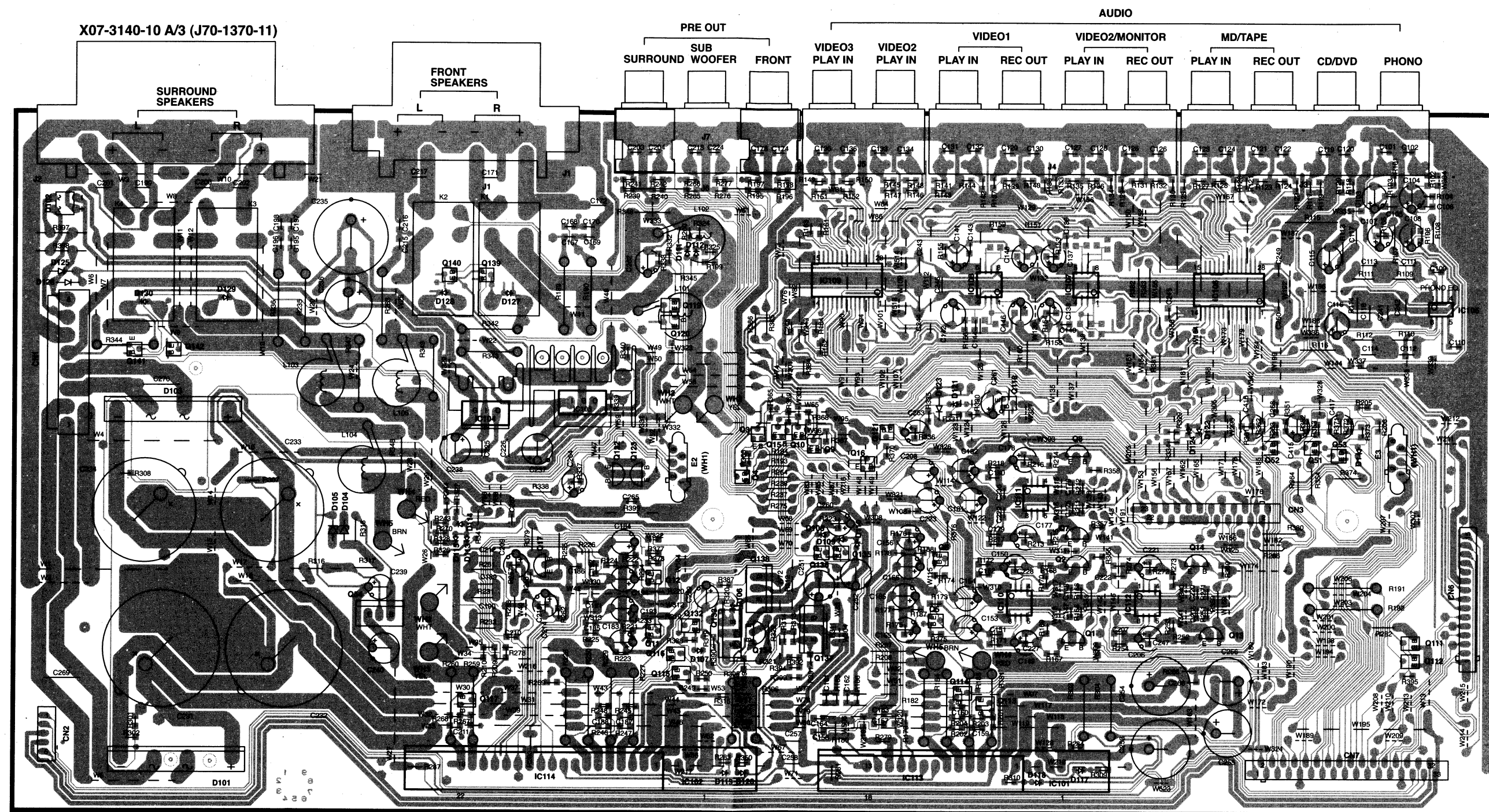


## O

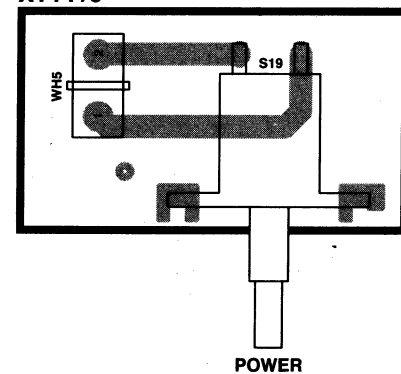




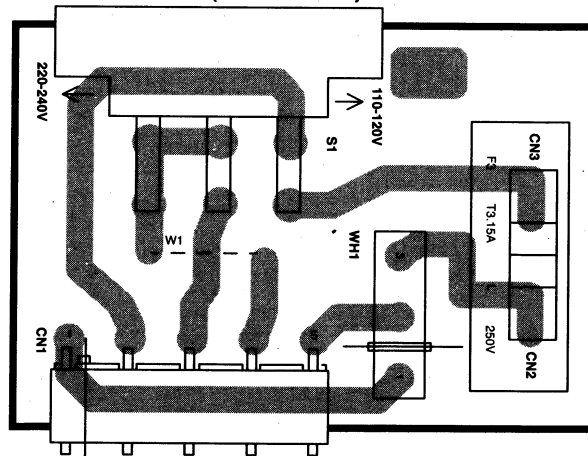
# PC BOARD (Component side view)



X14 F/6

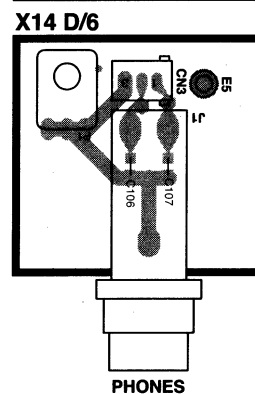
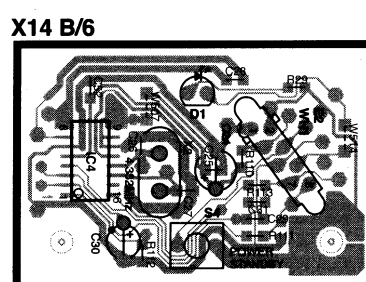
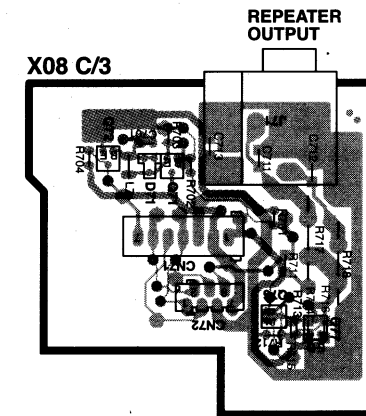
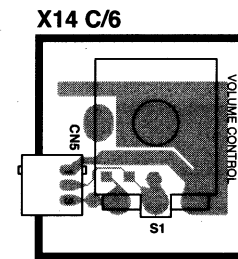
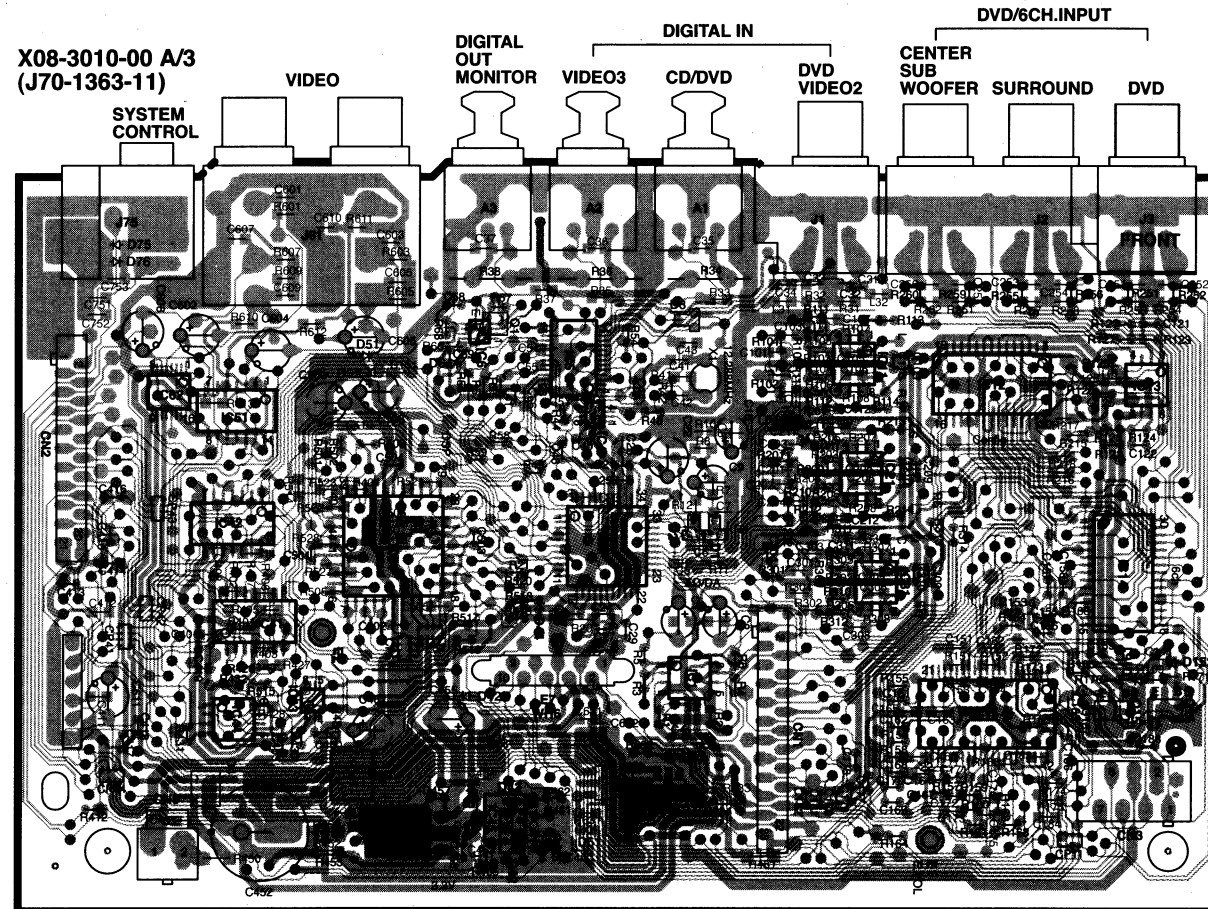


X00-3000-20 (J70-1368-01)

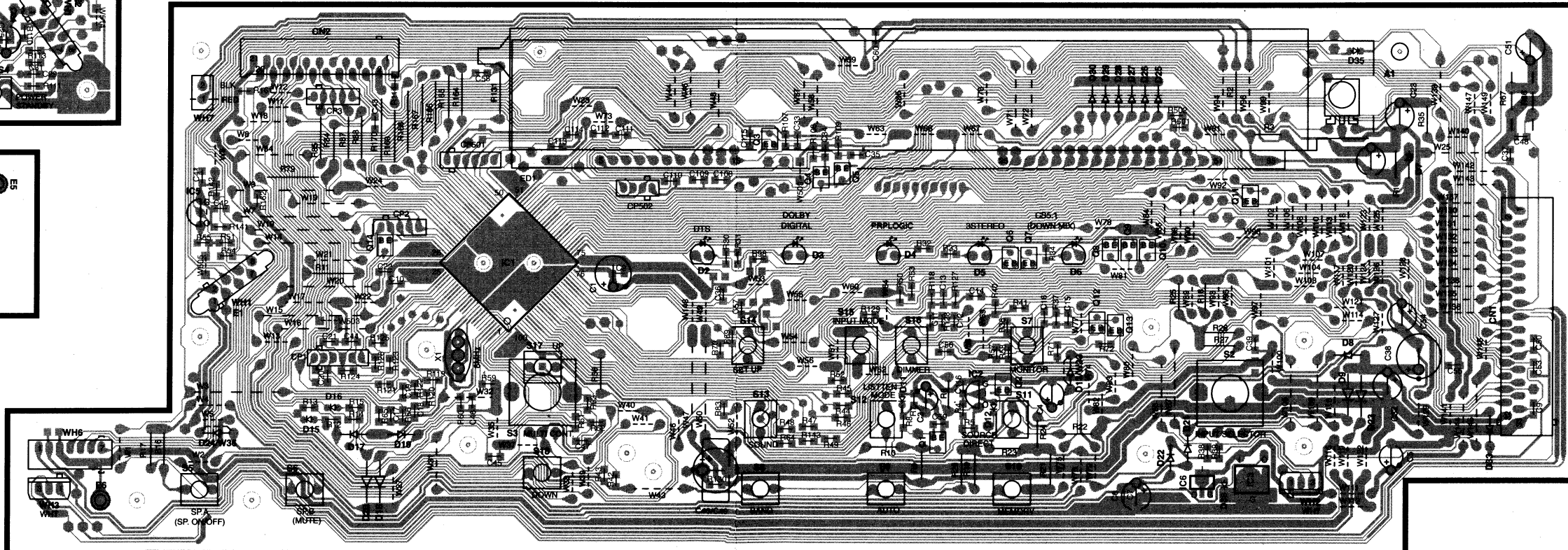




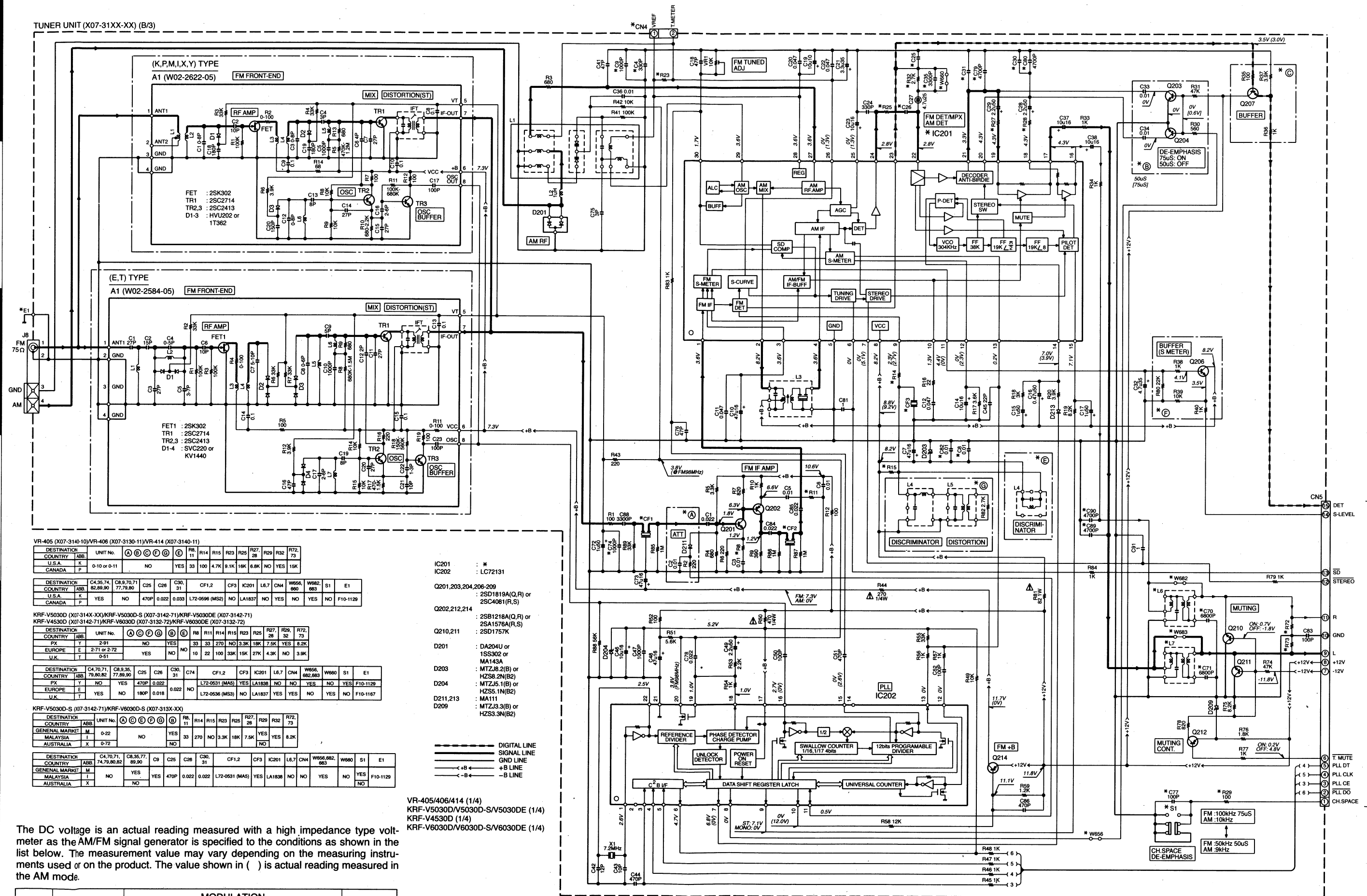
# PC BOARD (Component side view)



X14-7120-10 A/6 (J70-1409-11)



## TUNER UNIT (X07-31XX-XX) (B/3)



The DC voltage is an actual reading measured with a high impedance type voltmeter as the AM/FM signal generator is specified to the conditions as shown in the list below. The measurement value may vary depending on the measuring instruments used or on the product. The value shown in ( ) is actual reading measured in the AM mode.

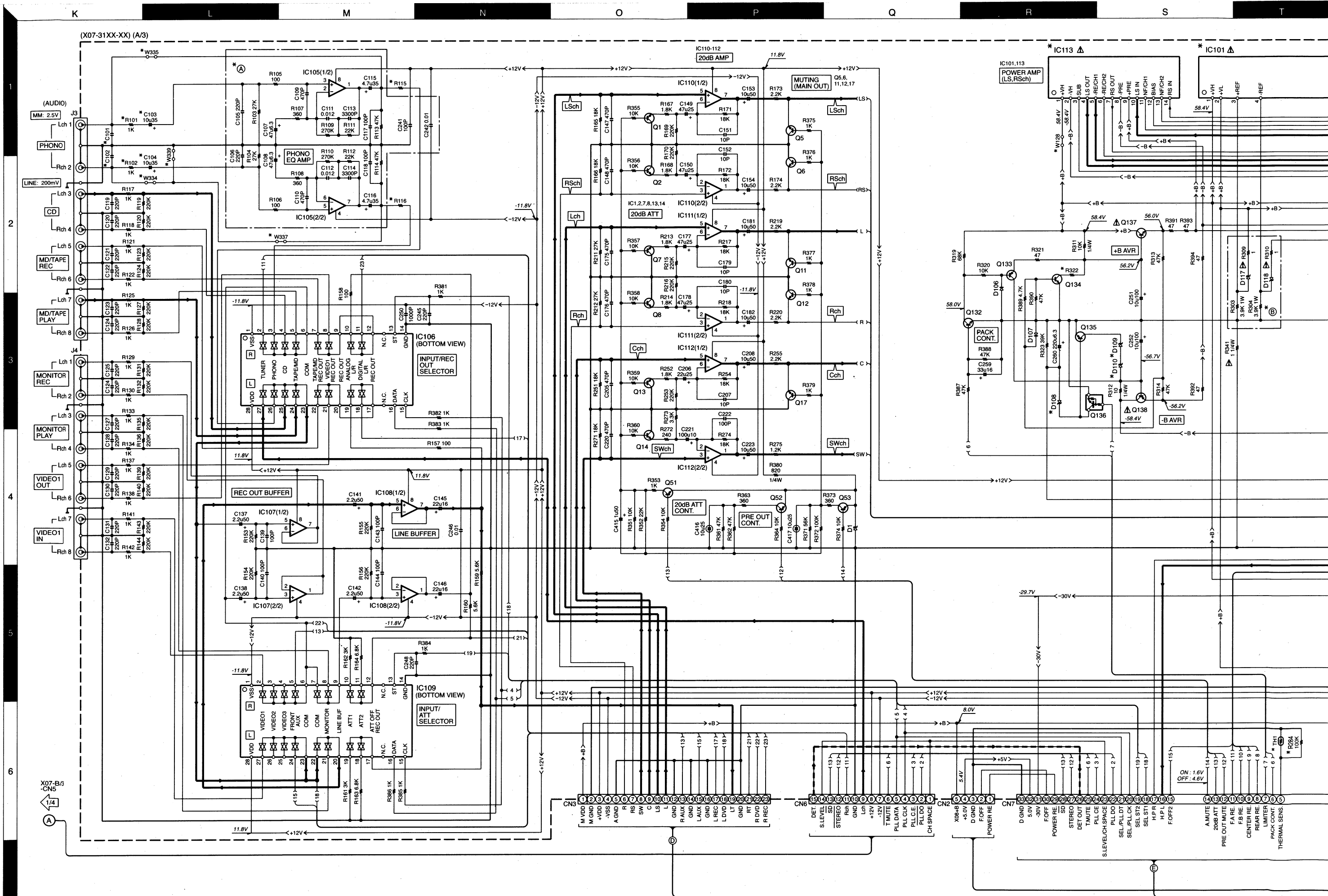
MODE	CARRIER	MODULATION		ANT INPUT
		FREQUENCY	DEVIATION	
FM	98MHz	1kHz	STEREO 67.5kHz 7.5kHz(Pilot)	60dB
AM	1000(999)kHz	400Hz	MONO 30% MOD	60dB

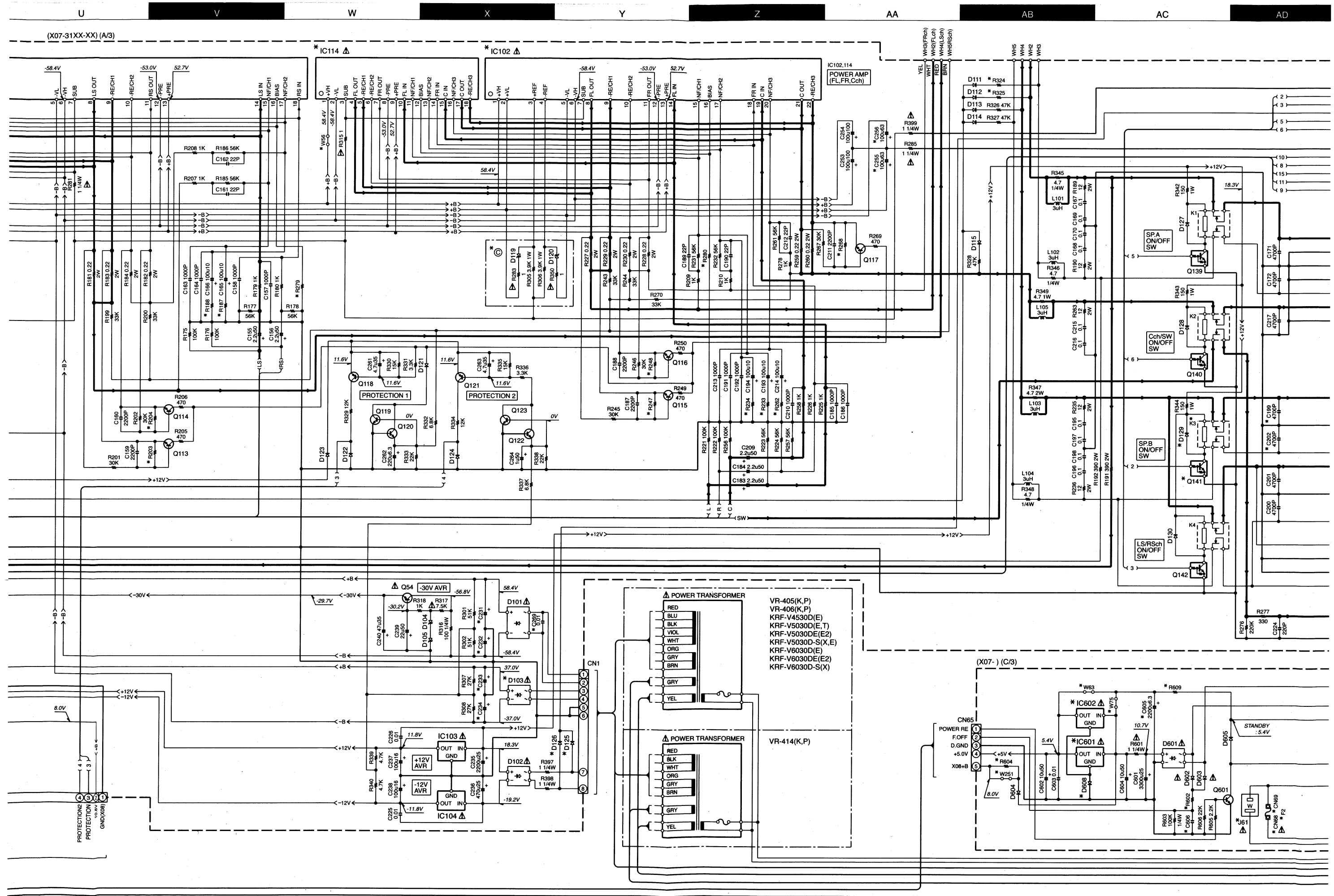
**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  $\Delta$  indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

Y05-4050-10

KRF-V4530D/V5030D/V6030D/VR-405/406/414

KENWOOD







AE

AF

AG

AH

AI

AJ

AK

AL

AM

AN

(X07-) (A/3)

VR-406 (X07-3130-11)

DESTINATION		UNIT No.	A	B	C	C101, 102	C103, 104, 199, 202, 255, 256	C231, 232	C233, 234	C269	D103	D108	D109	D110	D125, 126	D129	IC101	IC102	IC113, 114	J1	J2	K3	Q141	R101, 102, 284	R115, 116	R187, 188, 233, 234, 262	R203, 204, 247, 248, 268	R279, 280	R322	R324, 325	TH1	W56, 128, 334, 335, 337	W339
COUNTRY	ABB																																
U.S.A.	K	0-11	YES			39P	YES	4700u75	3300u42	NO	D5SBA20F03	UD28.2B	UD215B	UD216B	NO	YES	STK412-020A	STK413-020A	NO	SCREW	8P	YES	YES	YES	100	1.8K	9.1K	33K	18K	75K	NO	NO	YES
CANADA	P																																

KRF-V6030D/V6030DE (X07-3132-72)

DESTINATION		UNIT No.	A	B	C	C101, 102	C103, 104, 199, 202, 255, 256	C231, 232	C233, 234	C269	D103	D108	D109	D110	D125, 126	D129	IC101	IC102	IC113, 114	J1	J2	K3	Q141	R101, 102	R115, 116	R187, 188, 233, 234, 262	R203, 204, 247, 248, 268	R279, 280	R284	R322	R324, 325	TH1	W56, 128, 334, 335, 337	W339
COUNTRY	ABB.																																	
EUROPE	E	2-72	YES	39P	YES	4700u63	3300u35	NO	RBV-602LFA	UD28.2B	UD210B	UD213B	NO	YES	STK412-020A	STK413-020A	NO	SCREW	8P	YES	YES	YES	YES	100	2.4K	9.1K	33K	NO	18K	75K	YES	NO	YES	

KRF-V6030D-S (X07-313X-XX)

DESTINATION		UNIT No.	A	B	C	C101, 102	C103, 104, 199, 202, 255, 256	C231, 232	C233, 234	C269	D103	D108	D109	D110	D125, 126	D129	IC101	IC102	IC113, 114	J1	J2	K3	Q141	R101, 102	R115, 116	R187, 188, 233, 234, 262	R203, 204, 247, 248, 268	R279, 280	R284	R322	R324, 325	TH1	W56, 128, 334, 335, 337	W339
COUNTRY	ABB.																																	
GENERAL MARKET	M	0-22	YES	39P	YES	4700u75	3300u42	NO	RBV-602LFA DSSRA20F03	UD28.2B	UD215B	UD216B	YES	YES	STK412-020A	STK413-020A	NO	SCREW	8P	YES	YES	YES	100	1.8K	9.1K	33K	NO	18K	75K	YES	NO	YES		
MALAYSIA	I																																	
AUSTRALIA	X																																	
		0-72																																

VR-405 (X07-3140-10)

DESTINATION		UNIT No.	A	B	C	C101, 102	C103, 104, 199, 202, 255, 256	C231, 232	C233, 234	C255, 256	D103	D108	D109	D110	D125, 126	D129	IC101	IC102	IC113, 114	J1	J2	K3	Q141	R101, 102	R115, 116	R187, 188, 233, 234, 262	R203, 204, 247, 248, 268	R279, 280	R284	R322	R324, 325	TH1	W56, 128, 334, 335, 337	W339
COUNTRY	ABB.																																	
U.S.A.	K	0-10	NO	YES	220P	NO	4700u75	3300u42	YES	D5SBA20F03	UDZ6.8B	UDZ16B	UDZ13B	NO	NO	STK412-010A	STK413-010A	NO	LEVER	4P	NO	NO	NO	1K	2.2K	11K	33K	YES	10K	75K	NO	YES	NO	
CANADA	P																																	

VR-414 (X07-3140-11)

DESTINATION		UNIT No.	A	B	C	C101, 102	C103, 104, 199, 202, 233, 234, 255, 256	C231, 232	C269	D103	D108	D109, 110	D125, 126, 129	IC101, 102	IC113, 114	J1	J2	K3	Q141	R101, 102	R115, 116	R187, 188, 233, 234, 262	R203, 204, 247, 248, 268	R279, 280, 322	R284	R324, 325	TH1	W56, 128, 334, 335, 337	W339
COUNTRY	ABB.																												
U.S.A.	K	0-11	NO	220P	NO	4700u63	YES	NO	UD23.3B	UD213B	NO	NO	YES	LEVER	4P	NO	NO	NO	1K	2.7K	15K	10K	YES	200K	NO	YES	NO	YES	NO
CANADA	R																												

KRF-V5030D-S (X07-314X-XX)

DESTINATION	UNIT No.	ABB.	(A)	(B)	(C)	C101, 102	C103, 104, 255, 256	C199, 202, 269	C231, 232	C233, 234	D103	D108	D109	D110	D125, 126	D129	IC101	IC102	IC113, 114	J1	J2	K3	Q141	R101, 102	R115, 116	R187, 188, 233, 234, 262	R203, 204, 247, 248, 268	R279, 280	R284	R322	R324, 325	TH1	W56, 128, 339	W334, 335, 337	
GENERAL MARKET	M	0-21																																	
MALAYSIA	Y	0-21	YES	39P	YES	NO	4700u75	3300u42	RBV-602LFA	UD28.8B	UD216B	UD213B	YES	NO	STK412-010A	STK413-010A	NO	LEVER	4P	NO	NO	YES	100	2.2K	11K	33K	NO	10K	75K	YES	YES	NO			
AUSTRALIA	I	0-71							068A09502																										

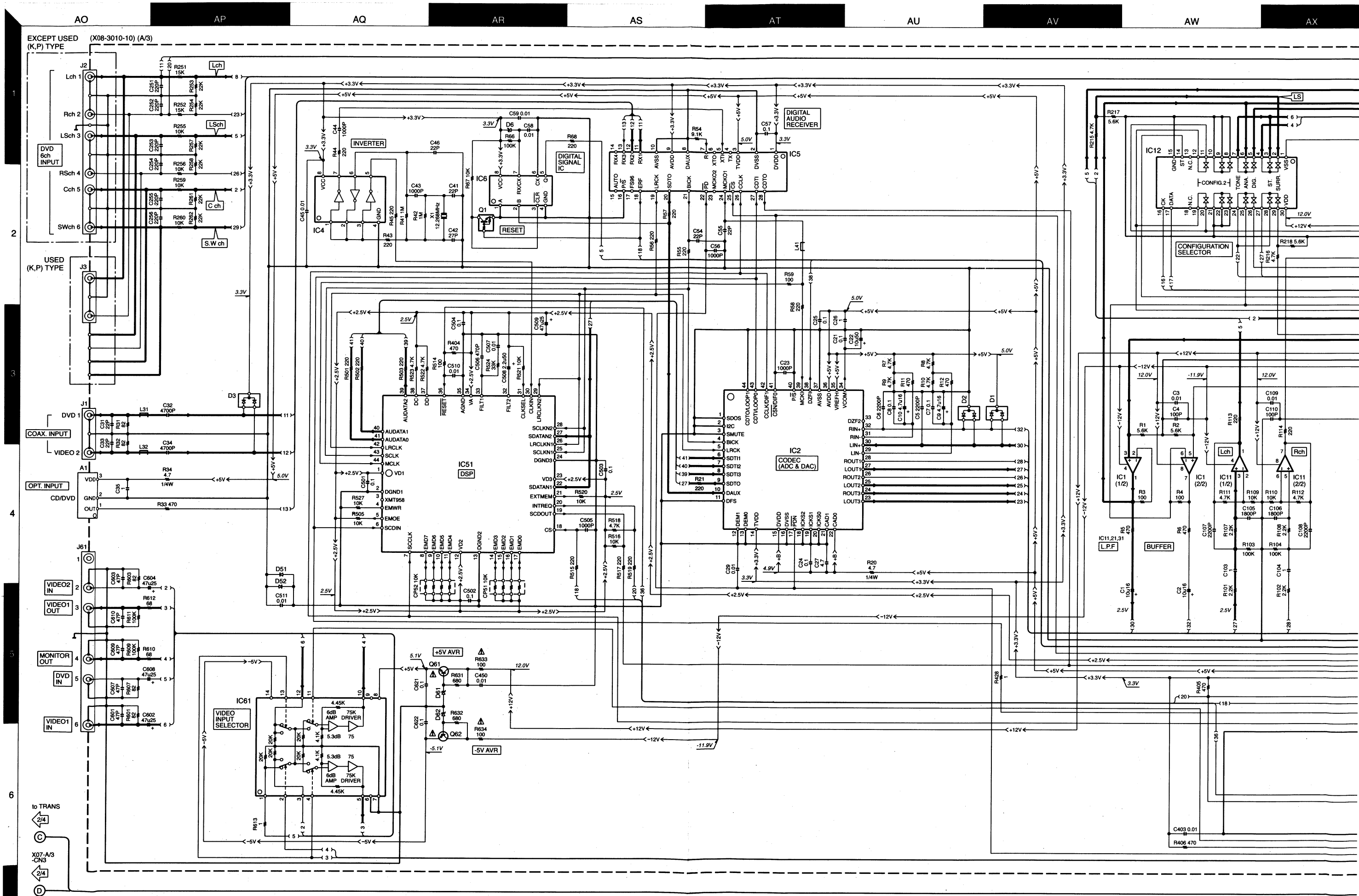
KRF-V5030D (X07-314X-XX)/KRF-V4530D/V5030DE/V5030D-S (X07-3142-71)

DESTINATION		UNIT No.	A B C			C101, 102	C103,104, 255,256	C199, 202,269	C231, 232	C233, 234	D103	D108	D109	D110	D125, 126	D129	IC101	IC102	IC113, 114	J1	J2	K3	Q141	R101, 102	R115, 116	R187,188,233, 234,262	R203,204,247, 248,268	R279, 280	R284	R322	R324, 325	TH1	W56,128, 339	W334 335,337	
COUNTRY	ABB																																		
PX	Y	2-91							4700u75	3300u42	D5SBA20F03	UD28.8B	UD216B	UD213B	YES											2.2K									
EUROPE	E	2-71	YES	39P	YES	NO			4700u63	3300u35	RBV-602LFA	UD25.6B	UD211B	UD210B	NO	NO	STK412-010A	STK413-010A	NO	LEVER	4P	NO	NO	YES	100		11K	33K	NO	10K	100K	YES	YES	NO	
JULY	T	0-51																							2.7K										

(X07-) (C/3)

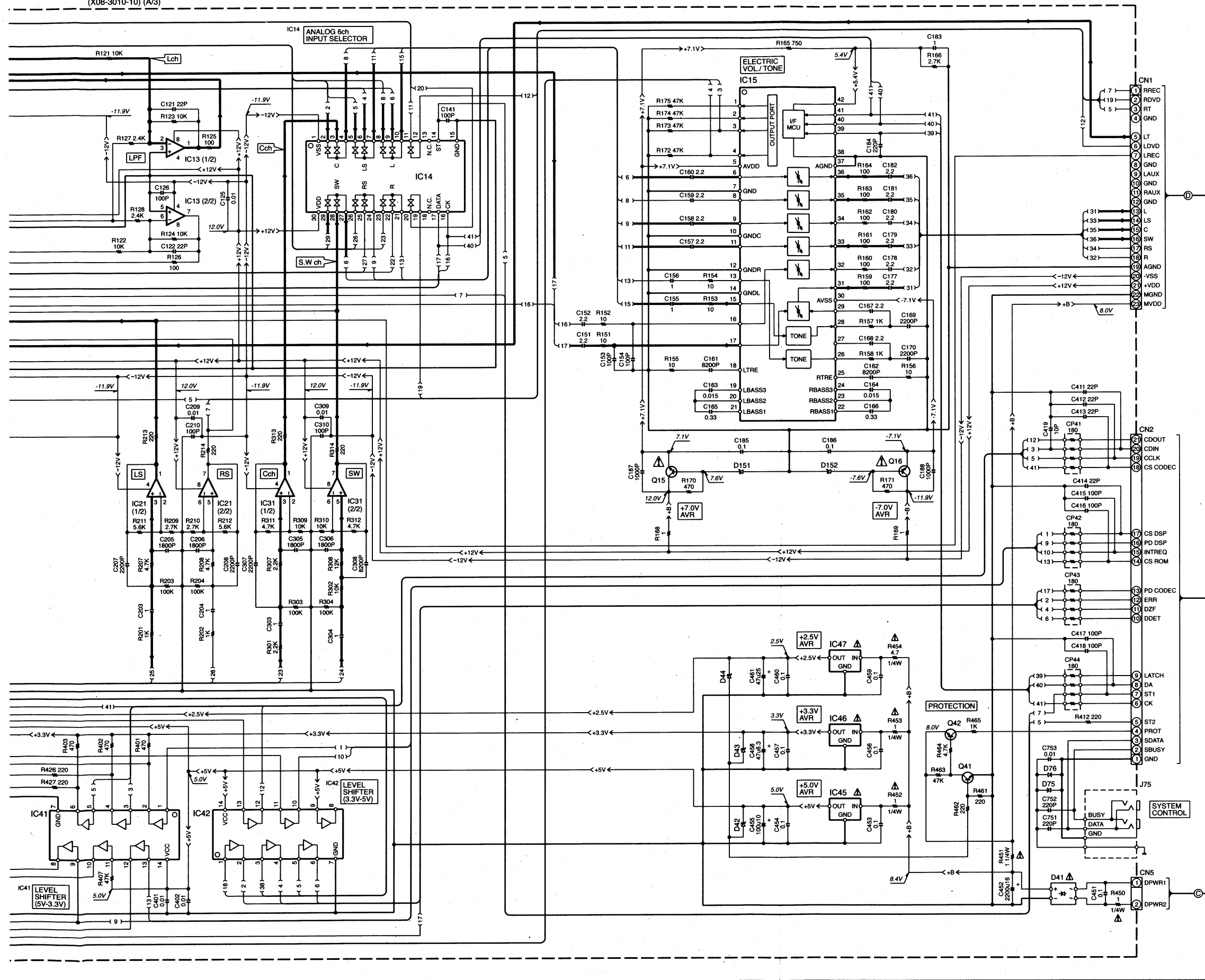
VR-406 (X07-3130-11)

DESTINATION		UNIT No.	C605	C606	C6N2	C6N3 64, 68,69	D608	F1	F2	IC601	IC602	J61	K601	P61	R602	R604	R609	R610	T1	W23,75, 250	W63, 251
COUNTRY	ABB.																				
U.S.A.	K																				
Canada	R	0-11	NO	0.1	YES	NO	1SS133 or HSS104A	F50-0077 .8A	NO	YES	NO	E03- 0148	S78- 099	YES	30K 10W	10 14W	10 17W	YES	L07-2758 or L07-2781	YES	NO



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(X08-3010-10) (A/3)

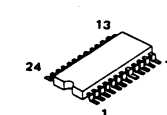


IC1,11,13,21,31 : NJM4558MD  
 IC2 : AK4527-VQ  
 IC4 : TC7WU04FU  
 IC5 : AK4110-VF  
 IC6 : TC7WH123FU  
 IC12,14 : NJM7311AM  
 IC15 : M62446FP  
 IC41 : TC74HC07AF  
 IC42 : TC74HCT7007AF  
 IC43 : TA48M033F  
 IC44 : TA48M033F  
 IC45 : TA48M033F  
 IC46 : TA48M033F  
 IC47 : TA48M033F  
 IC48 : TA48M033F  
 IC49 : TA48M033F  
 IC50 : TA48M033F  
 IC51 : CS493253-CLR or CS493263-CLR  
 IC52 : NJM2279M  
 IC61 : DTC124EUA or UN5212  
 Q15,61 : 2SD1664(Q,R) or 2SD1963(R,S)-G  
 Q16,62 : 2SB1132(Q,R) or 2SB1308(Q,R)-G  
 Q41 : 2SC4081(R,S) or 2SD1819A(Q,R) or 2SA1578A(R,S) or 2SB1218A(Q,R)  
 D1,3 : 1SS301 or DAN202U or MA142WK  
 D2 : 1SS300 or DAP202U or MA142WA  
 D6,7,76 : MA111  
 D41 : S12B20(4072)  
 D42,43,61,62 : UDZ5.6B  
 D44 : UDZ3.9B  
 D151,152 : UDZ7.5B

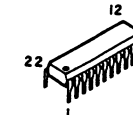
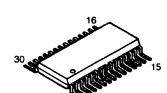
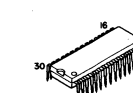
**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  $\Delta$  indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter with a cassette loaded at playback mode. The measurement value may vary depending on the measuring instruments used or on the product. Bias circuit DC voltage is measured while in the record mode.

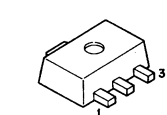
2SD2351



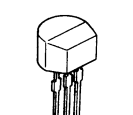
LC72131

NJU7311AM  
NJU7313AMLA1837  
LA1838

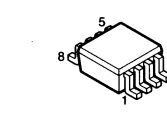
XC62FP5102P



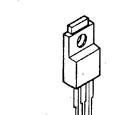
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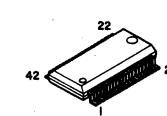
TC7WU04FU



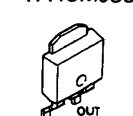
BA05T



M62446FP



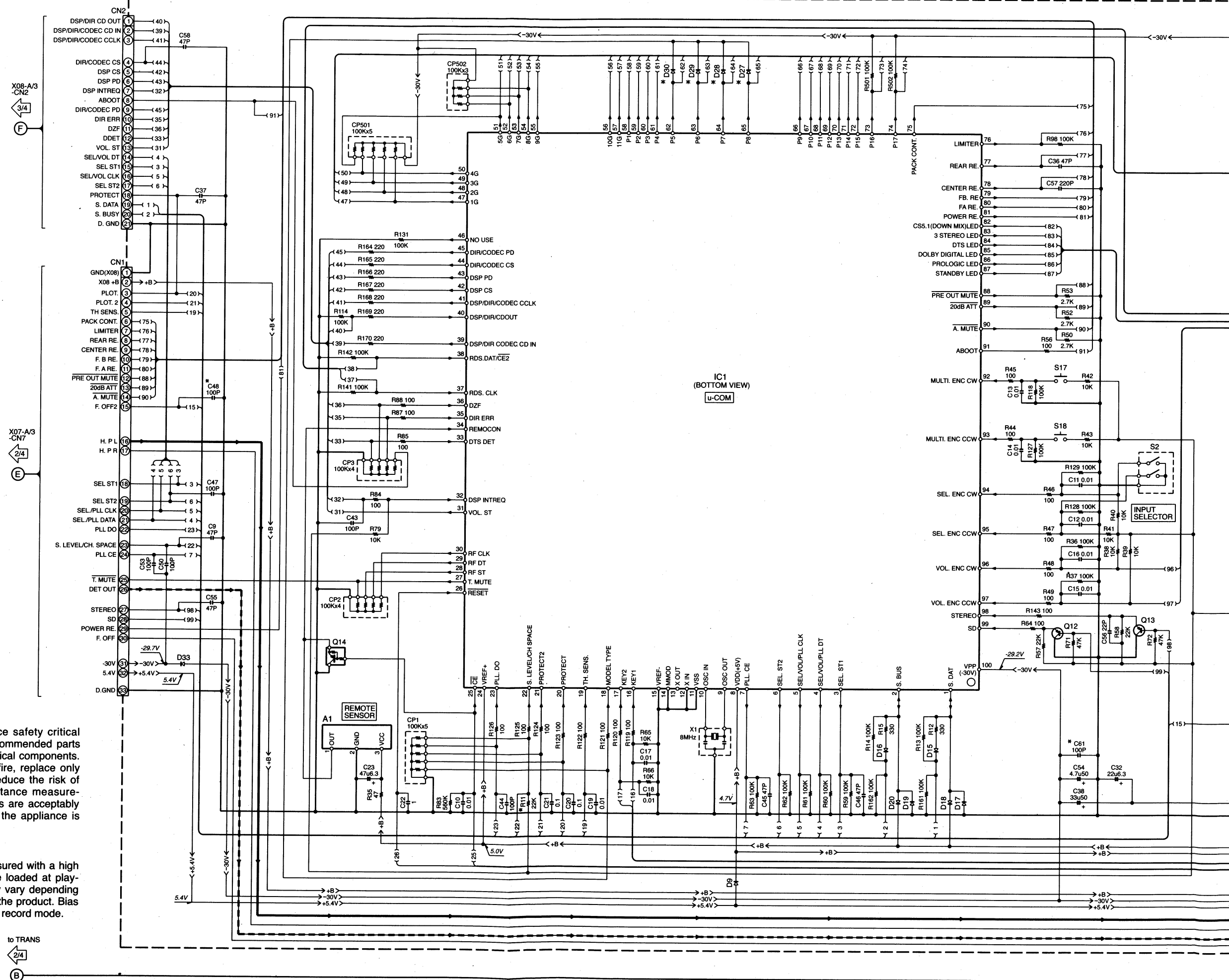
TA48M033F



VR-405/406/414 (3/4)  
 KRF-V5030D/V5030D-S/V5030DE (3/4)  
 KRF-V4530D (3/4)  
 KRF-V6030D/V6030D-S/V6030DE (3/4)

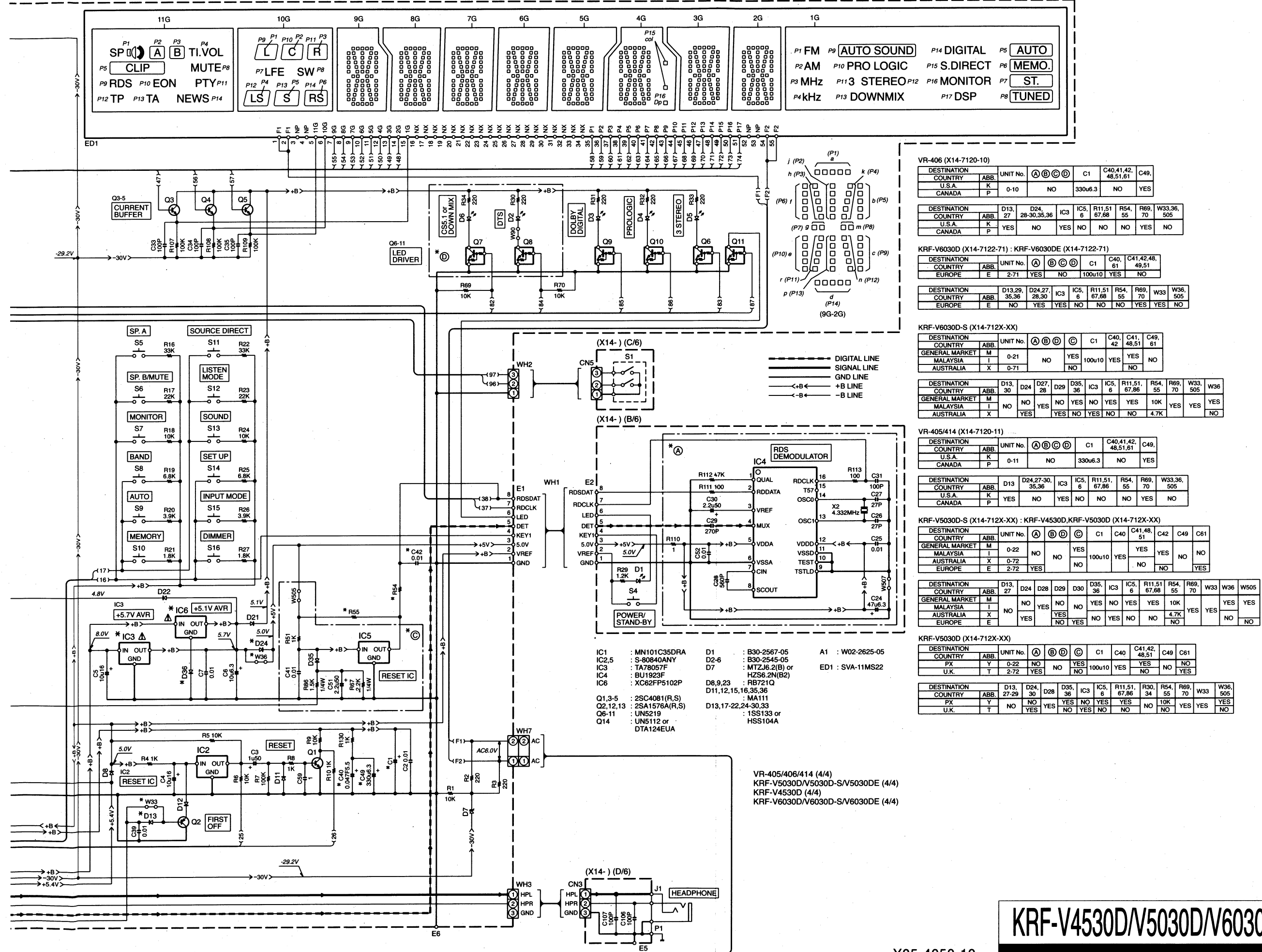
KRF-V4530D/V5030D/V6030D/VR-405/406/414

(X14-7XXX-XX) (A/6)



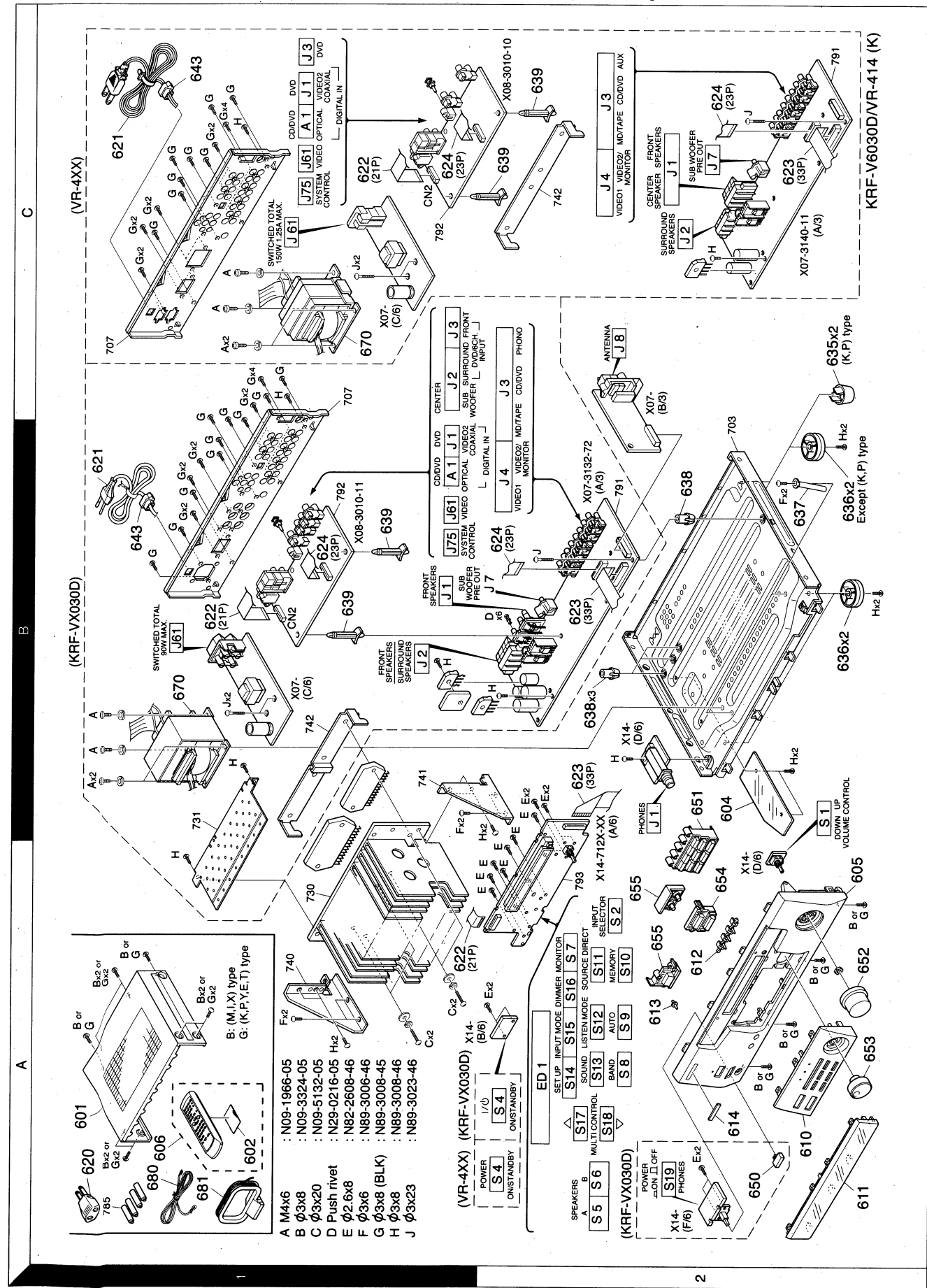


(X14-7XXX-XX) (A/6)



# KRF-V4530D/V5030D/V6030D/VR-405/406/414

## EXPLODED VIEW (UNIT)



Parts with exploded numbers larger than 700 are not supplied.

# KRF-V4530D/V5030D/V6030D/VR-405/406/414

## PARTS LIST

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
601	1A	*	H10-7628-02	POLYSTYRENE FOAMED FIXTURE	KP	
602	1A	*	H10-7629-02	POLYSTYRENE FOAMED FIXTURE	E6	
603	1A	*	H25-0232-04	PROTECTION BAG (235X350X0.03)	MI	
604	2A	*	H25-0391-04	PROTECTION BAG	E7	
605	2A	*	H50-3607-04	ITEM CARTON CASE	MI	
606	2A	*	H50-3608-04	ITEM CARTON CASE	KP	
607	2A	*	H50-3609-04	ITEM CARTON CASE		
608	2A	*	H50-3610-04	ITEM CARTON CASE		
609	2A	*	H50-3651-04	ITEM CARTON CASE		
610	2C	*	J02-1013-05	FOOT		
611	2B	*	J02-1464-03	FOOT		
612	2B	*	J19-2808-05	HOLDER		
613	2B	*	J19-3752-14	UNIT HOLDER		
614	1B	*	J19-5919-05	UNIT HOLDER		
615	1B	*	J42-0083-05	POWER CORD BUSHING		
616	1B	*	J61-0307-05	WIRE BAND		
617	2A	*	K27-2384-04	KNOB (BUTTON)	E	
618	2A	*	K27-2385-04	KNOB (BUTTON)	MIX	
619	2B	*	K29-7675-12	KNOB	KPE	
620	2B	*	K29-7676-12	KNOB	MIX	
621	2A	*	K29-7678-04	KNOB	MIX	
622	2A	*	K29-7679-04	KNOB	MIX	
623	2A	*	K29-7681-14	KNOB	MIX	
624	2A	*	K29-7682-14	KNOB	MIX	
625	2A	*	K29-7684-03	KNOB	MIX	
626	2A	*	K29-7685-03	KNOB	MIX	
627	2A	*	K29-7688-03	KNOB	KPE	
628	2A	*	K29-7688-03	KNOB	MIX	
629	1B	*	L07-2787-05	POWER TRANSFORMER	KP	
630	1B	*	L07-2788-05	POWER TRANSFORMER	MI	
631	1B	*	L07-2789-05	POWER TRANSFORMER	X	
632	1A	*	T90-0836-05	LEAD WIRE ANTENNA	E	
633	1A	*	T90-0832-05	LOOP ANTENNA		
<b>KRF-V5030D/KRF-V4530D/VR-405/VR-414 (Y05-4050-10)</b>						
601	1A	*	A01-3733-01	METALLIC CABINET	E1E2E4	
602	1A	*	A01-3733-01	METALLIC CABINET	KPYT	
603	1A	*	A01-3734-01	METALLIC CABINET	E3	
604	1A	*	A01-3734-01	METALLIC CABINET	MIX	
605	2B	*	A46-0309-04	REAR COVER	KP	
606	2A	*	A60-1759-01	PANEL	MIXE3	
607	2A	*	A60-1760-11	PANEL	E1E2E4	
608	2A	*	A60-1761-11	PANEL	YT	
609	1A	*	A70-1328-05	REMOTE CONTROL(RC-R0509)	KPYMIX	
610	1A	*	A70-1329-05	REMOTE CONTROL(RC-R0510)	ET	
611	2A	*	B07-2477-02	ESCUTCHEON	E1E2E4	
612	2A	*	B07-2477-02	ESCUTCHEON	KPYT	
613	2A	*	B07-2478-02	ESCUTCHEON	MIXE3	
614	2A	*	B10-3552-02	FRONT GLASS	K3P5	
615	2A	*	B10-3552-02	FRONT GLASS	YMIX	

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
601	1A	*	A01-3733-01	METALLIC CABINET	KPE	
602	1A	*	A01-3734-01	METALLIC CABINET	MIX	
603	2A	*	A46-0309-04	REAR COVER	KP	
604	2A	*	A60-1759-01	PANEL	MIX	
605	2A	*	A60-1760-11	PANEL	E	
606	2A	*	A60-1761-11	PANEL	KPMIX	
607	2A	*	A70-1328-05	REMOTE CONTROL(RC-R0609)	KPE	
608	2A	*	A70-1329-05	REMOTE CONTROL(RC-R0610)	MIX	
609	2A	*	B07-2477-02	ESCUTCHEON	KPE	
610	2A	*	B07-2478-02	ESCUTCHEON	MIX	
611	2A	*	B10-3549-02	FRONT GLASS	KP	
612	2A	*	B10-3550-02	FRONT GLASS	MIX	
613	2A	*	B10-3551-02	FRONT GLASS	E	
614	2A	*	B12-0384-04	INDICATOR	X	
615	2A	*	B12-0385-04	INDICATOR	E	
616	2A	*	B43-0314-04	KENWOOD BADGE	K	
617	2A	*	B46-0096-53	WARRANTY CARD	P	
618	2A	*	B46-0310-03	WARRANTY CARD	X	
619	2A	*	B46-0328-03	WARRANTY CARD	K	
620	2A	*	B46-0346-00	QUESTIONNAIRE CARD	K	
621	2A	*	B46-0347-03	WARRANTY CARD	P	
622	2A	*	B58-0964-13	CAUTION CARD (UL)	X	
623	2A	*	B58-0965-13	CAUTION CARD (UL)	E	
624	2A	*	B58-0966-13	CAUTION CARD (PL)	MIE6	
625	2A	*	B58-0967-03	CAUTION CARD (PL)	E7	
626	2A	*	B60-4598-00	INSTRUCTION MANUAL(EN)	KPMIX	
627	2A	*	B60-4599-00	INSTRUCTION MANUAL(FR)	P	
628	2A	*	B60-4600-00	INSTRUCTION MANUAL(TC)	M	
629	2A	*	B60-4602-00	INSTRUCTION MANUAL(EN)	E7	
630	2A	*	B60-4603-00	INSTRUCTION MANUAL(ES)	M	
631	2A	*	B60-4604-00	INSTRUCTION MANUAL(FRGE)	E6	
632	2A	*	B60-4605-00	INSTRUCTION MANUAL(ITNE)	E6	
633	2A	*	B60-4606-00	INSTRUCTION MANUAL(RU/PL)	E7	
634	2A	*	B60-4607-00	INSTRUCTION MANUAL(CZ/HU)	KPMIX	
635	2A	*	B60-4617-00	INSTRUCTION MANUAL(EN)	P	
636	2A	*	B60-4618-00	INSTRUCTION MANUAL(FR)	M	
637	2A	*	B60-4619-00	INSTRUCTION MANUAL(ES)	M	
638	2A	*	B60-4620-00	INSTRUCTION MANUAL(TC)	M	
639	2A	*	B60-4622-00	INSTRUCTION MANUAL(S-L)	E7	
640	2A	*	B60-4623-00	INSTRUCTION MANUAL(S-L)	E7	
641	2A	*	E08-0115-05	AC PLUG ADAPTER	M	
642	2A	*	E30-2717-05	AC POWER CORD	M	
643	2A	*	E30-2941-05	AC POWER CORD	M	
644	2A	*	E30-2942-05	AC POWER CORD	M	
645	2A	*	E35-2455-05	FLAT CABLE (21P)	X	
646	2A	*	E35-2456-05	FLAT CABLE (33P)	KP	
647	2A	*	E35-2480-05	FLAT CABLE (33P)	MIE	
648	2A	*	G10-0536-04	NON-WOVEN FABRIC		
649	2A	*	G11-2416-04	CUSHION		

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# KRF-V4530D/V5030D/V6030D/VR-405/406/414

## PARTS LIST

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
635	2C	*	H50-3661-04	ITEM CARTON CASE	E2	
636	2B	*	H50-3734-04	ITEM CARTON CASE	E4	
637	2B	*	J02-1013-05	FOOT	KP	
638	2B	*	J02-1464-03	FOOT		
639	2C	*	J19-2808-05	HOLDER		
643	1C	*	J19-3752-14	UNIT HOLDER		
		*	J19-5919-05	UNIT HOLDER		
		*	J42-0083-05	POWER CORD BUSHING		
		*	J61-0307-05	WIRE BAND		
650	2A	*	K27-2384-04	KNOB (BUTTON)	E1E2E4	
650	2A	*	K27-2384-04	KNOB (BUTTON)	YT	
650	2A	*	K27-2385-04	KNOB (BUTTON)	MIXE3	
651	2B	*	K29-7675-12	KNOB	E1E2E4	
651	2B	*	K29-7675-12	KNOB	KPYT	
651	2B	*	K29-7676-12	KNOB	MIXE3	
652	2A	*	K29-7678-04	KNOB	E1E2E4	
652	2A	*	K29-7678-04	KNOB	KPYT	
652	2A	*	K29-7679-04	KNOB	MIXE3	
653	2A	*	K29-7681-14	KNOB	E1E2E4	
653	2A	*	K29-7681-14	KNOB	KPYT	
653	2A	*	K29-7682-14	KNOB	MIXE3	
654	2A	*	K29-7684-03	KNOB	E1E2E4	
654	2A	*	K29-7684-03	KNOB	KPYT	
654	2A	*	K29-7685-03	KNOB	MIXE3	
655	2A	*	K29-7687-03	KNOB	E1E2E4	
655	2A	*	K29-7687-03	KNOB	KPYT	
655	2A	*	K29-7688-03	KNOB	MIXE3	
670	1C	*	L07-2794-05	POWER TRANSFORMER	K5P5	
670	1C	*	L07-2795-05	POWER TRANSFORMER	YMI	
670	1C	*	L07-2796-05	POWER TRANSFORMER	X	
670	1C	*	L07-2797-05	POWER TRANSFORMER	E	
670	1C	*	L07-2800-05	POWER TRANSFORMER	K4P4	
680	1A	*	T90-0836-05	LEAD WIRE ANTENNA		
681	1A	*	T90-0852-05	LOOP ANTENNA		
<b>POWER SUPPLY (X00-3000-20) Y,M,I type only</b>						
CN1			E40-8386-05	PIN ASSY		
F3			F05-3121-05	FUSE (SEMKO) (250V T3.15AL)		
CN2.3			J13-0075-05	FUSE CLIP		
S1			S62-0001-05	SLIDE SWITCH		
<b>POWER AMP (X07-3130-11, X07-3140-10)</b>						
C1			CK73FB1H223K	CHIP C	K	
C2			CK73FB1H103K	CHIP C	K	
C3			CK73FB1H103K	CHIP C	K	
C4			CK73FB1H103K	CHIP C	K	
C5.6			CK73FB1H103K	CHIP C	K	
C7			CE04LW1C470M	ELECTRO	16WV	
C8			CK73EB1H103K	CHIP C	K	
C9			CK73FCH1H102J	CHIP C	1000PF	
C10			CE04LW1C470M	ELECTRO	16WV	
C11, 12			CK73FB1H473K	CHIP C	K	

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611	2A	*	B10-3574-02	FRONT GLASS	E1E2E3	
611	2A	*	B10-3575-02	FRONT GLASS	T	
611	2A	*	B10-3605-02	FRONT GLASS	K4P4	
612	2A	*	B12-0384-04	INDICATOR	E4	
613	2A	*	B12-0385-04	INDICATOR		
614	2A	*	B43-0314-04	KENWOOD BADGE	X	
		*	B46-0096-53	WARRANTY CARD	ET	
		*	B46-0310-03	WARRANTY CARD	KY	
		*	B46-0328-03	WARRANTY CARD		
		*	B46-0346-00	QUESTIONNAIRE CARD	K	
		*	B46-0347-03	WARRANTY CARD	P	
		*	B58-0513-04	CAUTION CARD (PRESET220-240)	Y	
		*	B58-0945-03	CAUTION CARD	T	
		*	B58-0964-13	CAUTION CARD (UL)	KY	
		*	B58-0965-13	CAUTION CARD (PL)	XT	
		*	B58-0966-13	CAUTION CARD (PL)	E1E3E4	
		*	B58-0966-13	CAUTION CARD (PL)	M	
		*	B58-0967-03	CAUTION CARD (L)	P	
		*	B58-1607-03	CAUTION CARD	E2	
		*	B59-1104-00	SERVICE DIRECTORY	Y	
		*	B60-4598-00	INSTRUCTION MANUAL(EN)	KPYMIX	
		*	B60-4599-00	INSTRUCTION MANUAL(FR)	P	
		*	B60-4600-00	INSTRUCTION MANUAL(TC)	M	
		*	B60-4602-00	INSTRUCTION MANUAL(EN)	T1E2	
		*	B60-4603-00	INSTRUCTION MANUAL(ES)	E1E3E4	
		*	B60-4603-00	INSTRUCTION MANUAL(ES)	M	
		*	B60-4604-00	INSTRUCTION MANUAL(FR/GE)	E1E3E4	
		*	B60-4605-00	INSTRUCTION MANUAL(T/NE)	E1E3E4	
		*	B60-4606-00	INSTRUCTION MANUAL(RU/PL)	E2	
		*	B60-4607-00	INSTRUCTION MANUAL(CZ/HU)	E2	
620	1A	*	E03-0115-05	AC PLUG ADAPTER	M	
621	1C	*	E30-2605-05	AC POWER CORD	X	
621	1C	*	E30-2717-05	AC POWER CORD	Y	
621	1C	*	E30-2721-05	AC POWER CORD	X	
621	1C	*	E30-2941-05	AC POWER CORD	TP	
621	1C	*	E30-2942-05	AC POWER CORD	MIE	
622	1A, 1C	*	E35-2455-05	FLAT CABLE (21P)		
623	2B, 2C	*	E35-2456-05	FLAT CABLE (33P)		
624	1C, 2C	*	E35-2480-05	FLAT CABLE (23P)		
		*	G10-0536-04	NON-WOVEN FABRIC		
		*	G11-2416-04	CUSHION		
		*	H10-7628-02	POLYSTYRENE FOAMED FIXTURE		
		*	H10-7629-02	POLYSTYRENE FOAMED FIXTURE		
		*	H25-0232-04	PROTECTION BAG (235X350X0.03)	E	
		*	H25-0232-04	PROTECTION BAG (235X350X0.03)	KPYMIX	
		*	H25-0391-04	PROTECTION BAG		
		*	H25-0651-04	PROTECTION BAG	T	
		*	H50-3611-04	ITEM CARTON CASE	K5P5	
		*	H50-3612-04	ITEM CARTON CASE	YEIT	
		*	H50-3613-04	ITEM CARTON CASE	XES	
		*	H50-3614-04	ITEM CARTON CASE	M	
		*	H50-3615-04	ITEM CARTON CASE	K4P4	

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## KRF-V4530D/V5030D/V6030D/VR-405/406/414

## PARTS LIST

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
C101,102			CC73FCH1H390J	CHIP C	ETXMIY	5
C103,104			CE04RW1V100M	ELECTRO	J	6
C105,106			CE04RW1V100M	ELECTRO	35WV	5
C107,108			CC73FCH1H221J	CHIP C	ETXMIY	5
C109,110			CE04RW0J470M	ELECTRO	J	6
C111,112			CC73FCH1H471J	CHIP C	ETXMIY	5
C113,114			CC73FCH1H471J	CHIP C	ETXMIY	5
C115,116			CC73FCH1H471J	CHIP C	ETXMIY	5
C117,118			CC73FCH1H471J	CHIP C	ETXMIY	5
C119,120			CC73FCH1H471J	CHIP C	ETXMIY	5
C121,122			CC73FCH1H471J	CHIP C	ETXMIY	5
C123,124			CC73FCH1H471J	CHIP C	ETXMIY	5
C125,126			CC73FCH1H471J	CHIP C	ETXMIY	5
C127,128			CC73FCH1H471J	CHIP C	ETXMIY	5
C129,130			CC73FCH1H471J	CHIP C	ETXMIY	5
C131,132			CC73FCH1H471J	CHIP C	ETXMIY	5
C133,134			CC73FCH1H471J	CHIP C	ETXMIY	5
C135,136			CC73FCH1H471J	CHIP C	ETXMIY	5
C137,138			CC73FCH1H471J	CHIP C	ETXMIY	5
C139,140			CC73FCH1H471J	CHIP C	ETXMIY	5
C141,142			CC73FCH1H471J	CHIP C	ETXMIY	5
C143,144			CC73FCH1H471J	CHIP C	ETXMIY	5
C145,146			CC73FCH1H471J	CHIP C	ETXMIY	5
C147,148			CC73FCH1H471J	CHIP C	ETXMIY	5
C149,150			CC73FCH1H471J	CHIP C	ETXMIY	5
C151,152			CC73FCH1H471J	CHIP C	ETXMIY	5
C153,154			CC73FCH1H471J	CHIP C	ETXMIY	5
C155,156			CC73FCH1H471J	CHIP C	ETXMIY	5
C157,158			CC73FCH1H471J	CHIP C	ETXMIY	5
C159,160			CC73FCH1H471J	CHIP C	ETXMIY	5
C161,162			CC73FCH1H471J	CHIP C	ETXMIY	5
C163,164			CC73FCH1H471J	CHIP C	ETXMIY	5
C165,166			CC73FCH1H471J	CHIP C	ETXMIY	5
C167,170			CC73FCH1H471J	CHIP C	ETXMIY	5
C171,172			CC73FCH1H471J	CHIP C	ETXMIY	5
C175,176			CC73FCH1H471J	CHIP C	ETXMIY	5
C177,178			CC73FCH1H471J	CHIP C	ETXMIY	5
C179,180			CC73FCH1H471J	CHIP C	ETXMIY	5
C181,182			CC73FCH1H471J	CHIP C	ETXMIY	5
C183,184			CC73FCH1H471J	CHIP C	ETXMIY	5
C185,186			CC73FCH1H471J	CHIP C	ETXMIY	5
C187,188			CC73FCH1H471J	CHIP C	ETXMIY	5
C189,190			CC73FCH1H471J	CHIP C	ETXMIY	5
C191,192			CC73FCH1H471J	CHIP C	ETXMIY	5
C193,194			CC73FCH1H471J	CHIP C	ETXMIY	5
C195,196			CC73FCH1H471J	CHIP C	ETXMIY	5
C199			CC73FCH1H471J	CHIP C	ETXMIY	5
C200,201			CC73FCH1H471J	CHIP C	ETXMIY	5
C202			CC73FCH1H471J	CHIP C	ETXMIY	5
C205			CC73FCH1H471J	CHIP C	ETXMIY	5
C206			CC73FCH1H471J	CHIP C	ETXMIY	5
C207			CC73FCH1H471J	CHIP C	ETXMIY	5
C208			CC73FCH1H471J	CHIP C	ETXMIY	5
C209			CC73FCH1H471J	CHIP C	ETXMIY	5
C210			CC73FCH1H471J	CHIP C	ETXMIY	5

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C14			CE04LW1C100M	ELECTRO	16WV	
C15			CE04LW1H010M	ELECTRO	50WV	
C16			CE04LW1H010M	ELECTRO	50WV	
C17			CE04LW1H010M	ELECTRO	50WV	
C18			CC73FCH1H470J	CHIP C	J	
C19			CE04RW1A100M	ELECTRO	10WV	
C20			CC73FCH1H473K	CHIP C	K	
C21			CE04RW1V3R3M	ELECTRO	35WV	
C22			CC73FCH1H473K	CHIP C	K	
C23			CE04LW1C100M	ELECTRO	16WV	
C24			CK73FB1H331K	CHIP C	K	
C25			CC73FCH1H81J	CHIP C	J	
C26			CC73FCH1H81J	CHIP C	J	
C27			CC73FCH1H81J	CHIP C	J	
C28			CC73FCH1H81J	CHIP C	J	
C29			CC73FCH1H81J	CHIP C	J	
C30			CC73FCH1H81J	CHIP C	J	
C31			CC73FCH1H81J	CHIP C	J	
C32			CC73FCH1H81J	CHIP C	J	
C33			CC73FCH1H81J	CHIP C	J	
C34			CC73FCH1H81J	CHIP C	J	
C35			CC73FCH1H81J	CHIP C	J	
C36			CC73FCH1H81J	CHIP C	J	
C37			CC73FCH1H81J	CHIP C	J	
C38			CC73FCH1H81J	CHIP C	J	
C39			CC73FCH1H81J	CHIP C	J	
C40			CC73FCH1H81J	CHIP C	J	
C41			CC73FCH1H81J	CHIP C	J	
C42			CC73FCH1H81J	CHIP C	J	
C43			CC73FCH1H81J	CHIP C	J	
C44			CC73FCH1H81J	CHIP C	J	
C45			CC73FCH1H81J	CHIP C	J	
C46			CC73FCH1H81J	CHIP C	J	
C47			CC73FCH1H81J	CHIP C	J	
C48			CC73FCH1H81J	CHIP C	J	
C49			CC73FCH1H81J	CHIP C	J	
C50			CC73FCH1H81J	CHIP C	J	
C51			CC73FCH1H81J	CHIP C	J	
C52			CC73FCH1H81J	CHIP C	J	
C53			CC73FCH1H81J	CHIP C	J	
C54			CC73FCH1H81J	CHIP C	J	
C55			CC73FCH1H81J	CHIP C	J	
C56			CC73FCH1H81J	CHIP C	J	
C57			CC73FCH1H81J	CHIP C	J	
C58			CC73FCH1H81J	CHIP C	J	
C59			CC73FCH1H81J	CHIP C	J	
C60			CC73FCH1H81J	CHIP C	J	
C61			CC73FCH1H81J	CHIP C	J	
C62			CC73FCH1H81J	CHIP C	J	
C63			CC73FCH1H81J	CHIP C	J	
C64			CC73FCH1H81J	CHIP C	J	
C65			CC73FCH1H81J	CHIP C	J	
C66			CC73FCH1H81J	CHIP C	J	
C67			CC73FCH1H81J	CHIP C	J	
C68			CC73FCH1H81J	CHIP C	J	
C69			CC73FCH1H81J	CHIP C	J	
C70			CC73FCH1H81J	CHIP C	J	
C71			CC73FCH1H81J	CHIP C	J	
C72			CC73FCH1H81J	CHIP C	J	
C73			CC73FCH1H81J	CHIP C	J	
C74			CC73FCH1H81J	CHIP C	J	
C75			CC73FCH1H81J	CHIP C	J	
C76			CC73FCH1H81J	CHIP C	J	
C77			CC73FCH1H81J	CHIP C	J	
C78			CC73FCH1H81J	CHIP C	J	
C79			CC73FCH1H81J	CHIP C	J	
C80			CC73FCH1H81J	CHIP C	J	
C81			CC73FCH1H81J	CHIP C	J	
C82			CC73FCH1H81J	CHIP C	J	
C83			CC73FCH1H81J	CHIP C	J	
C84			CC73FCH1H81J	CHIP C	J	
C85			CC73FCH1H81J	CHIP C	J	
C86			CC73FCH1H81J	CHIP C	J	
C87			CC73FCH1H81J	CHIP C	J	
C88			CC73FCH1H81J	CHIP C	J	
C89			CC73FCH1H81J	CHIP C	J	
C90			CC73FCH1H81J	CHIP C	J	
C91			CC73FCH1H81J	CHIP C	J	
C92			CC73FCH1H81J	CHIP C	J	
C93			CC73FCH1H81J	CHIP C	J	
C94			CC73FCH1H81J	CHIP C	J	
C95			CC73FCH1H81J	CHIP C	J	
C96			CC73FCH1H81J	CHIP C	J	
C97			CC73FCH1H81J	CHIP C	J	
C98			CC73FCH1H81J	CHIP C	J	
C99			CC73FCH1H81J	CHIP C	J	
C100			CC73FCH1H81J	CHIP C	J	
C101			CC73FCH1H81J	CHIP C	J	
C102			CC73FCH1H81J	CHIP C	J	

L: Scandinavia  
Y: P(Far East, Hawaii)  
Y: AAFES(Europe)

K: USA  
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C: China  
V: China(Shanghai)  
M: Other Areas

I: Malaysia  
Δ indicates safety critical components

# KRF-V4530D/V5030D/V6030D/VR-405/406/414

## PARTS LIST

\* New Parts  
Parts without **Parts No.** are not supplied.  
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Teile ohne **Parts No.** werden nicht geliefert.

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
CN2		*	E40-8197-05	SOCKET FOR PIN ASSY		
CN3			E40-8485-05	FLAT CABLE CONNECTOR	KPET	
CN4			E40-4871-05	PIN ASSY		
CN5			E40-9831-05	SOCKET FOR PIN ASSY		
CN6			E40-9848-05	PIN ASSY		
CN7		*	E40-8490-05	FLAT CABLE CONNECTOR		
CN61			E40-4245-05	PIN ASSY	KPETX	6
CN62			E40-4245-05	PIN ASSY	YMI	45
CN63			E40-4428-05	PIN ASSY		6
CN64			E40-4245-05	PIN ASSY	YMIKXET	45
CN65		*	E40-8196-05	PIN ASSY		
J1			E70-0049-05	SCREW TERMINAL BOARD		
J2		*	E70-0122-05	LOCK TERMINAL BOARD		
J3		*	E70-0057-05	LOCK TERMINAL BOARD		
J4		*	E70-0065-05	LOCK TERMINAL BOARD		
J7		*	E63-1143-05	PIN JACK	KPY	
J8		*	E63-1146-05	LOCK TERMINAL BOARD(2P.F)		
J8		*	E20-0321-05	LOCK TERMINAL BOARD		
J8		*	E70-0052-05	LOCK TERMINAL BOARD		
J61		*	E03-0148-05	AC OUTLET		
J61		*	E03-0149-05	AC OUTLET	MIE	
J61		*	E03-0310-05	AC OUTLET	T	
J61		*	E03-0325-05	AC OUTLET	X	56
W182		*	E31-0001-00	JUMPER WIRE		
F1		*	F05-2525-05	FUSE (SEMKO)	YMXI	5
F1		*	F05-3121-05	FUSE (SEMKO)	MIX	6
F1		*	F05-3121-05	FUSE (SEMKO)	KP	4
F1		*	F50-0076-05	FUSE(5X20)	KP	56
F1		*	F50-0077-05	FUSE(5X20)		
F2		*	F05-2525-05	FUSE (SEMKO)	E	
CN65.67			J13-0075-05	FUSE CLIP		
CN68.69			J13-0075-05	FUSE CLIP	E	
CF1.2			L72-0531-05	CERAMIC FILTER	YMX	
CF1.2			L72-0536-05	CERAMIC FILTER	ET	
CF1.2			L72-0596-05	CERAMIC FILTER	KP	
CF3			L72-0607-05	CERAMIC FILTER	YMX	
L1		*	L39-1384-05	COMBINATION COIL		
L2		*	L40-1091-82	SMALL FIXED INDUCTOR(1.0UH)		
L3		*	L30-0911-05	AM IFT	KP	
L4		*	L30-0933-05	FM IFT	ET	
L5		*	L30-0950-05	FM IFT	ET	
L5		*	L30-0951-05	FM IFT		
L6.7		*	L79-1236-05	LC FILTER	ET	
L101-105		*	L39-1373-05	PHASE COMPENSATION COIL		
T1		*	L07-2758-05	POWER TRANSFORMER	KPXET	
T1		*	L07-2761-05	POWER TRANSFORMER	YMI	
T1		*	L07-2805-05	POWER TRANSFORMER		
X1		*	L77-2232-05	CRYSTAL RESONATOR		
R1			RK73FB2A101J	CHIP R		1/10W
R4			RK73FB2A681J	CHIP R		680
R5			RK73FB2A332J	CHIP R		3.3K
R6			RK73FB2A221J	CHIP R		220
R7			RK73FB2A821J	CHIP R		820

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
C211			CK73FB1H222K	2200PF	K	
C212			CK45FF1H103Z	22PF	J	
C213			CK73FB1H102J	1000PF	J	
C214			CE04KW1A101M	100UF	10WV	
C215.216			CK73FF1E104Z	0.10UF	Z	
C217			CQ93FMG1H472J	4700PF	J	
C220			CK73FB1H471J	470PF	J	
C221			CE04LW1A101M	100UF	10WV	
C222			CK73FB1H101J	100PF	J	
C223			CE04LW1H100M	10UF	50WV	
C224			CK73FB1H102J	220PF	J	
C225.226			CK45FF1H103Z	0.010UF	Z	
C231.232		*	C90-3916-05	4700UF	75WV	56
C231.232		*	C90-3916-05	4700UF	75WV	
C231.232		*	C90-3918-05	4700UF	63WV	
C231.232		*	C90-3918-05	4700UF	63WV	
C233.234		*	C90-3917-05	3300UF	63WV	4
C233.234		*	C90-3917-05	3300UF	42WV	56
C233.234		*	C90-3919-05	3300UF	25WV	
C235		*	CE04KW1E222M	2200UF	25WV	
C236			CE04KW1E471M	470UF	25WV	
C237.238			CE04LW1G101M	100UF	16WV	
C239			CE04LW1H220M	22UF	10WV	
C240			CE04LW1V470M	47UF	35WV	
C241			CK45FF1H101J	100PF	J	
C241			CK45FF1H103Z	0.010UF	Z	
C242			CK45FF1H103Z	0.010UF	Z	
C242			CK45FF1H103Z	0.010UF	Z	
C245			CK73FB1H221J	220PF	J	
C246			CK45FF1H103Z	0.010UF	Z	
C248			CK73FB1H221J	220PF	J	
C250			CK73FB1H102J	1000PF	J	
C251.252			CE04KW2A100M	10UF	100WV	
C253.254			CE04KW2A101M	100UF	100WV	
C255.256			CE04DW1J101M	100UF	63WV	6
C255.256			CE04DW1J101M	100UF	63WV	
C259			CE04LW1A101M	100UF	10WV	
C260			CE04LW0J221M	220UF	63WV	
C261			CE04LW1V477M	4.7UF	35WV	
C262			CE04LW0J221M	220UF	63WV	
C263			CE04LW1V477M	4.7UF	35WV	
C264			CE04LW1H010M	1.0UF	50WV	
C269			CK45FE2H103P	0.010UF	P	
C415			CE04LW1H010M	1.0UF	50WV	
C416.417			CE04HW1E100M	10UF	25WV	
C601			CE04LW1E332M	3300UF	25WV	
C602			CE04LW1H100M	10UF	50WV	
C603			CK45FF1H103Z	0.010UF	Z	
C604			CE04LW1H100M	10UF	50WV	
C605			CE04LW0J222M	2200UF	6.3WV	
C606			CK73FB1E104K	0.10UF	K	
C606			CK73FB1H683K	0.088UF	K	
CN1			E40-8364-05	PIN ASSY	YMI	

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## KRF-V4530D/V5030D/V6030D/VR-405/406/414

## PARTS LIST

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Ref. No	Add- ress	New Parts	Parts No.	Description	Desti- nation	Re- marks
R74			RK73FB2A473J	CHIP R	J	1/10W
R75			RK73FB2A822J	CHIP R	J	1/10W
R76			RK73FB2A182J	CHIP R	J	1/10W
R77			RK73FB2A821J	CHIP R	J	1/10W
R78			RK73FB2A102J	CHIP R	J	1/10W
R79			RK73FB2A223J	CHIP R	J	1/10W
R80			RS14KB3A220J	FL-PROOF RS	J	1W
R81			RK73FB2A272J	CHIP R	J	1/10W
R82			RK73FB2A102J	CHIP R	J	1/10W
R83			RK73FB2B102J	CHIP R	J	1/8W
R84			RK73FB2A105J	CHIP R	J	1/10W
R85 - 87			RK73FB2A563J	CHIP R	J	1/10W
R88			RK73FB2A333J	CHIP R	J	1/10W
R89			RK73FB2A102J	CHIP R	J	1/10W
R101, 102			RK73FB2A102J	CHIP R	J	1/10W
R103, 104			RK73FB2A273J	CHIP R	J	1/10W
R105, 106			RK73FB2A101J	CHIP R	J	1/10W
R105, 106			RK73FB2A101J	CHIP R	J	1/10W
R115, 116			RD14BB2C102J	RD	J	1/6W
R117, 118			RK73FB2A102J	CHIP R	J	1/10W
R119, 120			RK73FB2A224J	CHIP R	J	1/10W
R121, 122			RK73FB2A102J	CHIP R	J	1/10W
R123, 124			RK73FB2A224J	CHIP R	J	1/10W
R125, 126			RK73FB2A102J	CHIP R	J	1/10W
R127, 128			RK73FB2A224J	CHIP R	J	1/10W
R129, 130			RK73FB2A102J	CHIP R	J	1/10W
R131, 132			RK73FB2A224J	CHIP R	J	1/10W
R133, 134			RK73FB2A102J	CHIP R	J	1/10W
R135, 136			RK73FB2A224J	CHIP R	J	1/10W
R137, 138			RK73FB2A102J	CHIP R	J	1/10W
R139, 140			RK73FB2A224J	CHIP R	J	1/10W
R141, 142			RK73FB2A102J	CHIP R	J	1/10W
R143, 144			RK73FB2A224J	CHIP R	J	1/10W
R153, 156			RK73FB2A224J	CHIP R	J	1/10W
R159			RK73FB2A562J	CHIP R	J	1/10W
R161, 162			RK73FB2A302J	CHIP R	J	1/10W
R163, 164			RK73FB2A682J	CHIP R	J	1/10W
R165, 166			RK73FB2A183J	CHIP R	J	1/10W
R167, 168			RK73FB2A182J	CHIP R	J	1/10W
R169, 170			RK73FB2A224J	CHIP R	J	1/10W
R171, 172			RK73FB2A183J	CHIP R	J	1/10W
R173, 174			RK73FB2A222J	CHIP R	J	1/10W
R175, 176			RK73FB2A104J	CHIP R	J	1/10W
R177, 178			RK73FB2A563J	CHIP R	J	1/10W
R179			RK73FB2A102J	CHIP R	J	1/10W
R180			RS14KB3DR22J	FL-PROOF RS	J	1/8W
R181-184			RK73FB2A563J	CHIP R	J	2W
R185, 186			RK73FB2A182J	CHIP R	J	1/10W
R187, 188			RK73FB2A222J	CHIP R	J	1/10W
R187, 188			RK73FB2A242J	CHIP R	J	1/10W
R187, 188			RK73FB2A272J	CHIP R	J	1/10W
R187, 188			RK73FB2A272J	CHIP R	J	1/10W
R189, 190			RS14KB3D120J	FL-PROOF RS	J	2W

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Ref. No	Add- ress	New Parts	Parts No.	Description	Desti- nation	Re- marks
R8			RK73FB2A100J	CHIP R	J	1/10W
R8			RK73FB2A330J	CHIP R	J	1/10W
R9			RK73FB2A391J	CHIP R	J	1/10W
R10			RK73FB2A102J	CHIP R	J	1/10W
R11			RK73FB2A220J	CHIP R	J	1/10W
R11			RK73FB2A330J	CHIP R	J	1/10W
R12			RK73FB2A101J	CHIP R	J	1/10W
R14			RK73FB2A271J	CHIP R	J	1/10W
R15			RK73FB2A333J	CHIP R	J	1/10W
R15			RK73FB2A472J	CHIP R	J	1/10W
R16			RK73FB2A220J	CHIP R	J	1/10W
R17			RK73FB2A362J	CHIP R	J	1/10W
R18			RK73FB2A302J	CHIP R	J	1/10W
R19			RK73FB2A822J	CHIP R	J	1/10W
R20			RK73FB2A392J	CHIP R	J	1/10W
R23			RK73FB2A153J	CHIP R	J	1/10W
R23			RK73FB2A332J	CHIP R	J	1/10W
R23			RK73FB2A912J	CHIP R	J	1/10W
R25			RK73FB2A163J	CHIP R	J	1/10W
R25			RK73FB2A183J	CHIP R	J	1/10W
R25			RK73FB2A273J	CHIP R	J	1/10W
R27, 28			RK73FB2A432J	CHIP R	J	1/10W
R27, 28			RK73FB2A682J	CHIP R	J	1/10W
R27, 28			RK73FB2A752J	CHIP R	J	1/10W
R29			RK73FB2A101J	CHIP R	J	1/10W
R30			RK73FB2A561J	CHIP R	J	1/10W
R31			RK73FB2A473J	CHIP R	J	1/10W
R32			RK73FB2A272J	CHIP R	J	1/10W
R33, 34			RK73FB2A102J	CHIP R	J	1/10W
R35			RK73FB2A101J	CHIP R	J	1/10W
R36			RK73FB2A102J	CHIP R	J	1/10W
R37			RK73FB2A392J	CHIP R	J	1/10W
R38			RK73FB2A102J	CHIP R	J	1/10W
R39			RK73FB2A103J	CHIP R	J	1/10W
R42			RK73FB2A103J	CHIP R	J	1/10W
R43			RK73FB2A221J	CHIP R	J	1/10W
R44			RD14NB2E271J	RD	J	1/4W
R45			RK73FB2B102J	CHIP R	J	1/8W
R46			RK73FB2A102J	CHIP R	J	1/10W
R47			RK73FB2B102J	CHIP R	J	1/8W
R48			RK73FB2A102J	CHIP R	J	1/10W
R49			RK73FB2A103J	CHIP R	J	1/10W
R50			RD14NB2E471J	RD	J	1/4W
R51			RK73FB2A562J	CHIP R	J	1/10W
R52			RK73FB2A101J	CHIP R	J	1/10W
R53			RK73FB2A222J	CHIP R	J	1/10W
R54			RK73FB2A102J	CHIP R	J	1/10W
R55			RK73FB2A333J	CHIP R	J	1/10W
R56, 57			RK73FB2A102J	CHIP R	J	1/10W
R58			RK73FB2A123J	CHIP R	J	1/10W
R59			RK73FB2A122J	CHIP R	J	1/10W
R72, 73			RK73FB2A153J	CHIP R	J	1/10W
R72, 73			RK73FB2A392J	CHIP R	J	1/10W
R72, 73			RK73FB2A822J	CHIP R	J	1/10W

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## PARTS LIST

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**\* New Parts**  
Parts without  
Les articles ne  
Teile ohne Pa

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
R276			RK73FB2A324J	CHIP R	1/10W	
R277			RK73FB2A331J	CHIP R	1/10W	
R278			RK73FB2A102J	CHIP R	1/10W	
R279, 280		*	R92-1955-05	METAL GLAZE	KP	4
R279, 280		*	R92-1956-05	METAL GLAZE	KP	6
R279, 280		*	R92-1956-05	METAL GLAZE	ETMXIY	5
R279, 280		*	R92-1956-05	METAL GLAZE	KP	5
R281		*	R92-1945-05	METAL GLAZE	ETMXIY	6
R283			RK73FB2A1R0J	CHIP R	1/10W	
R283			RK73FB2A1R0J	CHIP R	ETMXIY	5
R283			RK73FB2A1R0J	CHIP R	KP	5
R284			RK73FB2A104J	CHIP R	KP	5
R285		*	R92-1945-05	METAL GLAZE	KP	6
R287			RK73EB2B101J	CHIP R	1/10W	
R301, 302			RK73FB2A513J	CHIP R	1/10W	
R303-306			RS14KB3A392J	FL-PROOF RS	1W	6
R303-306			RS14KB3A392J	FL-PROOF RS	ETMXIY	5
R303-306			RS14KB3A392J	FL-PROOF RS	KP	5
R307			RK73EB2B273J	CHIP R	1/10W	
R307			RK73EB2B273J	CHIP R	ETMXIY	6
R307			RK73EB2B273J	CHIP R	ETMXIY	5
R307			RK73EB2B273J	CHIP R	KP	5
R308			RK73FB2A273J	CHIP R	1/10W	
R308			RK73FB2A273J	CHIP R	ETMXIY	6
R308			RK73FB2A273J	CHIP R	ETMXIY	5
R309, 310			RK73FB2A1R0J	CHIP R	KP	6
R309, 310			RK73FB2A1R0J	CHIP R	ETMXIY	5
R309, 310			RK73FB2A1R0J	CHIP R	KP	5
R312			RD14NB2E103J	RD	1/10W	
R313, 314			RD14NB2E103J	RD	1/10W	
R315			RK73FB2A1R0J	CHIP R	1/10W	
R316			RD14NB2E101J	RD	1/10W	
R317			RD14BB2C752J	RD	1/10W	
R320			RK73FB2A103J	CHIP R	1/10W	
R322			RD14BB2C103J	RD	1/10W	
R323			RK73FB2A393J	CHIP R	1/10W	
R324, 325			RK73FB2A104J	CHIP R	ET	45
R324, 325			RK73FB2A204J	CHIP R	KP	5
R324, 325			RK73FB2A753J	CHIP R	KP	4
R324, 325			RK73FB2A753J	CHIP R	KPMXIY	6
R326-328			RK73FB2A473J	CHIP R	KPMXIY	5
R329			RK73FB2A123J	CHIP R	1/10W	
R330			RK73FB2A153J	CHIP R	1/10W	
R331			RK73FB2A332J	CHIP R	1/10W	
R332			RK73FB2A682J	CHIP R	1/10W	
R333			RK73FB2A223J	CHIP R	1/10W	
R334			RK73FB2A123J	CHIP R	1/10W	
R335			RK73FB2A153J	CHIP R	1/10W	
R336			RK73FB2A332J	CHIP R	1/10W	
R337			RK73FB2A682J	CHIP R	1/10W	
R339, 340			RK73FB2A472J	CHIP R	1/10W	
R341		*	R92-1945-05	METAL GLAZE	1/10W	
R342-344			RS14KB3A151J	FL-PROOF RS	1W	
R347			RS14KB3D4R7J	FL-PROOF RS	2W	
R349			RS14KB3A4R7J	FL-PROOF RS	1W	
R350			RK73FB2A1R0J	CHIP R	1/10W	
R350			RK73FB2A1R0J	CHIP R	ETMXIY	6
R350			RK73FB2A1R0J	CHIP R	ETMXIY	5

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# KRF-V4530D/V5030D/V6030D/VR-405/406/414

## PARTS LIST

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
W656			R92-0670-05	CHIP R	YMI	6
W659			R92-0670-05	CHIP R	ET	
W680			R92-0670-05	CHIP R		
W682			R92-0670-05	CHIP R		
W680			R92-0679-05	CHIP R		
W683			R92-0679-05	CHIP R	IX	6
W683			R92-0679-05	CHIP R	KP	5
W683			R92-0679-05	CHIP R	KP	4
W683			R92-0679-05	CHIP R	KPM	6
W683			R92-0679-05	CHIP R	MIX	5
W684,685			R92-0679-05	CHIP R		
K1,2			S76-0042-05	MAGNETIC RELAY		6
K3			S76-0042-05	MAGNETIC RELAY		
K4			S76-0042-05	MAGNETIC RELAY		
K601			S76-0099-05	MAGNETIC RELAY	KP	5
K601			S76-0107-05	MAGNETIC RELAY	EMXI	5
S1			S62-0034-05	SLIDE SWITCH	YMI	
D1			UDZ3,3B	ZENER DIODE		
D101			D5SBA20F03	DIODE		
D102			S1ZB20(4101)	DIODE		
D103			D5SBA20F03	DIODE		
D103			D5SBA20F03	DIODE		
D103			RBV-602LFA	DIODE	ETMI	
D104			HZS16N(B2)	ZENER DIODE		
D105			MTZJ16(B)	ZENER DIODE		
D105			HZS15N(B2)	ZENER DIODE		
D105			MTZJ15(B)	ZENER DIODE		
D106,107			MA111	DIODE		
D108			UDZ3,3B	ZENER DIODE	KP	5
D108			UDZ5,6B	ZENER DIODE	ET	6
D108			UDZ6,2B	ZENER DIODE	E	5
D108			UDZ6,8B	ZENER DIODE	KPMXI	5
D108			UDZ8,2B	ZENER DIODE	KPMXI	6
D109			UDZ10B	ZENER DIODE	E	5
D109			UDZ11B	ZENER DIODE	ET	5
D109			UDZ13B	ZENER DIODE	KP	4
D109			UDZ13B	ZENER DIODE	MI	5
D109			UDZ15B	ZENER DIODE	KPMXI	6
D109			UDZ16B	ZENER DIODE	KPMXI	5
D110			UDZ10B	ZENER DIODE	ET	5
D110			UDZ13B	ZENER DIODE	E	5
D110			UDZ13B	ZENER DIODE	KP	4
D110			UDZ13B	ZENER DIODE	KPMXI	5
D110			UDZ13B	ZENER DIODE	KPMXI	6
D111-115			MA111	DIODE		
D117-120			UDZ15B	ZENER DIODE		
D117-120			UDZ15B	ZENER DIODE	ETMXI	5
D117-120			UDZ15B	ZENER DIODE		
D121			UDZ15B	ZENER DIODE	KP	5
D122			MA111	DIODE		
D123			UDZ3,9B	ZENER DIODE		
D123			HSS104A	DIODE		
D123			1SS133	DIODE		

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
R350			RK73FB2A1R0J	1	1/10W	5
R351			RK73FB2A103J	10K	1/10W	
R352			RK73FB2A2E3J	22K	1/10W	
R353			RK73FB2A102J	10K	1/10W	
R356-358			RK73FB2A103J	10K	1/10W	
R360			RK73FB2A103J	10K	1/10W	
R361,362			RK73FB2A473J	47K	1/10W	
R363			RK73FB2A361J	360	1/10W	
R370			RK73FB2A102J	10K	1/10W	
R371			RK73FB2A563J	56K	1/10W	
R372			RK73FB2A104J	100K	1/10W	
R373			RK73FB2A361J	360	1/10W	
R375			RK73FB2A102J	10K	1/10W	
R377,378			RK73FB2A102J	10K	1/10W	
R384			RK73FB2B102J	10K	1/8W	
R387,388			RK73FB2A473J	47K	1/10W	
R389			RK73FB2A472J	47K	1/10W	
R390			RK73FB2A473J	47K	1/10W	
R391-394			RK73FB2A470J	47	1/10W	
R397-399			RD14NB2E1R0J	1	1/4W	
R601			RD14NB2E1R0J	1	1/4W	
R604			RD14NB2E100J	10	1/4W	
R604			RD14NB2E390J	39	1/4W	
R609			RD14NB2E151J	150	1/4W	
R609			RD14NB2E181J	180	1/4W	
R609			RD14NB2E2R2J	2,2	1/4W	
R610			RD14NB2E270J	27	1/4W	
VR1			R92-1844-05	CARBON	YMI	
W108			R32-0037-05	SEMI FIXED VARIABLE RESISTOR	KP	
W262			R92-0670-05	0 OHM	ET	
W301			R92-0679-05	0 OHM	X	
W302			R92-0670-05	0 OHM		
W303-306			R92-0679-05	0 OHM		
W307			R92-0670-05	0 OHM		
W308			R92-0679-05	0 OHM		
W309-311			R92-0670-05	0 OHM		
W312			R92-0679-05	0 OHM		
W313			R92-0670-05	0 OHM		
W315-318			R92-0679-05	0 OHM		
W319,320			R92-0670-05	0 OHM		
W321			R92-0679-05	0 OHM		
W322,323			R92-0670-05	0 OHM		
W324-333			R92-0679-05	0 OHM		
W334,335			R92-0670-05	0 OHM		
W336			R92-0679-05	0 OHM		
W337,338			R92-0670-05	0 OHM		
W338,339			R92-0670-05	0 OHM		
W340,341			R92-0670-05	0 OHM		
W342,343			R92-0679-05	0 OHM		
W506			R92-0679-05	0 OHM		
W513,514			R92-0679-05	0 OHM		
W523			R92-0679-05	0 OHM		
W651-655			R92-0670-05	0 OHM		

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C: China  
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Δ indicates safety critical components.

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# KRF-V4530D/V5030D/V6030D/VR-405/406/414

## PARTS LIST

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
Q51-53			2SB1218A(Q,R)	TRANSISTOR		
Q54			2SB1640	TRANSISTOR		
Q113-117			2SC3906K	TRANSISTOR		
Q118			2SA1576A(R,S)	TRANSISTOR		
Q119,120			2SB1218A(Q,R)	TRANSISTOR		
Q121			2SC3906K	TRANSISTOR		
Q122,123			2SA1576A(R,S)	TRANSISTOR		
Q132			2SC3906K	TRANSISTOR		
Q133			2SB1566	TRANSISTOR		
Q134			2SC1845(F,E)	TRANSISTOR		
Q135			2SA1576A(R,S)	TRANSISTOR		
Q136			2SB1218A(Q,R)	TRANSISTOR		
Q137			UN5219	DIGITAL TRANSISTOR		
Q138			2SD2395	TRANSISTOR		
Q139,140			2SB1640	TRANSISTOR		
Q141			DTC123JUA	DIGITAL TRANSISTOR		
Q142			DTC123JUA	DIGITAL TRANSISTOR		
Q201			2SC4081(R,S)	TRANSISTOR		
Q202			2SD1819A(Q,R)	TRANSISTOR		
Q203,204			2SA1576A(R,S)	TRANSISTOR		
Q205,207			2SB1218A(Q,R)	TRANSISTOR		
Q210,211			2SC4081(R,S)	TRANSISTOR		
Q212			2SD1757K	TRANSISTOR		
Q214			2SA1576A(R,S)	TRANSISTOR		
Q215			2SB1218A(Q,R)	TRANSISTOR		
Q216			2SC1740S(Q,R)	TRANSISTOR		
Q217			2SC2785(F,E)	TRANSISTOR		
A1			W02-2584-05	FM FRONT-END ASSY		
A1			W02-2622-05	FM FRONT-END ASSY		
<b>PREAMP (X08-3010-10)</b>						
C1,2			CE04RW1C100M	ELECTRO		
C3			CK73FB1H103K	CHIP C		
C4			CC73FB1H101J	CHIP C		
C5,6			CK73FB1H222K	CHIP C		
C7,8			CK73FB1E104K	CHIP C		
C9,10			CE04RW1C4R7M	ELECTRO		
C21			CK73FB1E104K	CHIP C		
C22			CE04RW1H100M	ELECTRO		
C23			CK73FB1H102K	CHIP C		
C24,25			CK73FB1E104K	CHIP C		
C26			CK73FF1C105Z	CHIP C		
C27			C91-1597-05	CERAMIC		
C29			CK73FB1H103K	CHIP C		
C31			CC73FB1H220J	CHIP C		
C32			CK73FB1H472K	CHIP C		
C33			CC73FB1H220J	CHIP C		

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D124			UD23-9B	ZENER DIODE		
D125,126			HSS104A	DIODE		
D127,128			1SS133	DIODE		
D129			MA111	DIODE		
D130			MA111	DIODE		
D201			DA204U	DIODE		
D202			MA143A	DIODE		
D203			1SS302	DIODE		
D204			HZS6-2N(B2)	ZENER DIODE		
D205			MTZJ8.2(B)	ZENER DIODE		
D206			HZS5.1N(B2)	ZENER DIODE		
D207			MTZJ5.1(B)	ZENER DIODE		
D208			HZS3.3N(B2)	ZENER DIODE		
D209			MTZJ3.3(B)	ZENER DIODE		
D211			MA111	DIODE		
D213			MA111	DIODE		
D601			S1ZB20(4101)	DIODE		
D602-605			HSS104A	DIODE		
D602-605			1SS133	DIODE		
D608			HSS104A	DIODE		
D609			RB721Q	DIODE		
IC101			1SS133	DIODE		
IC102			STK412-010A	HYBRID IC		
IC103			STK412-010A	HYBRID IC		
IC104			STK412-020A	HYBRID IC		
IC105			STK413-010A	HYBRID IC		
IC106			STK413-010A	HYBRID IC		
IC107,108			STK413-020A	HYBRID IC		
IC109			KIAT812AP1	ANALOGUE IC		
IC110-112			KIAT912P1	ANALOGUE IC		
IC113			NUM4580ED	ANALOGUE IC		
IC114			NUM4580ED	ANALOGUE IC		
IC201			NUJ7313AM	ANALOGUE IC		
IC202			NUM4565M	ANALOGUE IC		
IC203			STK442-090	HYBRID IC		
IC204			STK443-090	HYBRID IC		
IC205			LA1837	ANALOGUE IC		
IC206			LA1838	ANALOGUE IC		
IC207			LC72131	MOS-IC		
IC208			XC62FP5102P	ANALOGUE IC		
IC209			BA05T	ANALOGUE IC		
IC210			2SC1740S(Q,R)	TRANSISTOR		
Q1,2			2SC2785(F,E)	TRANSISTOR		
Q3,6			2SD2351	TRANSISTOR		
Q7,8			2SC1740S(Q,R)	TRANSISTOR		
Q11,12			2SD2351	TRANSISTOR		
Q13,14			2SC1740S(Q,R)	TRANSISTOR		
Q15,16			2SD2351	TRANSISTOR		
Q17			2SC2878(B)	TRANSISTOR		
Q51-53			2SA1576A(R,S)	TRANSISTOR		

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# KRF-V4530D/V5030D/V6030D/VR-405/406/414

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
C455			CE04LW1E101M	ELECTRO	10WV	
C456, 457			CK73FB1E104K	CHIP C	0.10UF	
C458			C92-0047-05	CHIP-ELE	6.3WV	
C459, 460			CK73FB1E104K	CHIP C	0.10UF	
C461			CE04LW1E470M	ELECTRO	25WV	
C501-504			CK73FB1E104K	CHIP C	K	
C505			CK73FB1H102K	CHIP C	K	
C506			CK73FB1H102K	CHIP C	K	
C507			CK73FB1H103K	CHIP C	K	
C508			CE04LW1H2R2M	ELECTRO	50WV	
C509			CE04LW1E470M	ELECTRO	25WV	
C510, 511			CK73FB1H103K	CHIP C	K	
C601			CK73FB1H103K	CHIP C	K	
C602			CE04LW1E470M	ELECTRO	25WV	
C603			CK73FB1H103K	CHIP C	K	
C604			CE04LW1E470M	ELECTRO	25WV	
C607			CK73FB1H103K	CHIP C	K	
C608			CE04LW1E470M	ELECTRO	25WV	
C609, 610			CK73FB1H103K	CHIP C	K	
C621, 622			CK73FB1E104K	CHIP C	K	
C751, 752			CK73FB1H103K	CHIP C	K	
C753			CK73FB1H103K	CHIP C	K	
CN1		*	E40-8485-05	FLAT CABLE CONNECTOR		
CN2		*	E40-8484-05	FLAT CABLE CONNECTOR		
CN5		*	E40-4248-05	PIN ASSY		
CN5		*	E40-8358-05	PIN ASSY		
J1		*	E63-1080-05	PIN JACK		
J1		*	E63-1140-05	PIN JACK		
J2		*	E63-1139-05	PIN JACK		
J2		*	E63-1139-05	PIN JACK		
J3		*	E63-1138-05	PIN JACK		
J61		*	E63-1141-05	PIN JACK		
J75		*	E11-0293-05	MINIATURE PHONE JACK(2P)		
E1, 2		*	J11-0809-05	WIRE CLAMPER		
L31, 32		*	L92-0511-05	CHIP FERRITE		
L41		*	L92-0510-05	CHIP FERRITE		
X1		*	L77-2296-05	CRYSTAL RESONATOR(12.288MHZ)		
CP41-44			R90-0728-05	MULTI-COMP	180 X4	
CP51, 52			R90-0714-05	MULTI-COMP	10K X4	
R1, 2			CK73FB2A562J	CHIP R	5.6K	
R3, 4			CK73FB2A101J	CHIP R	100	
R5, 6			CK73FB2A471J	CHIP R	470	
R7, 10			CK73FB2A472J	CHIP R	47K	
R11, 12			CK73FB2A471J	CHIP R	470	
R20			R92-1946-05	METAL GLAZE	4.7	
R21			CK73FB2A221J	CHIP R	220	
R31, 32			CK73FB2A820J	CHIP R	82	
R33			CK73FB2A471J	CHIP R	470	
R34			RD14NB2E47J	RD	4.7	
R41, 42			CK73FB2A105J	CHIP R	1.0M	
R43, 45			CK73FB2A221J	CHIP R	220	
R54			CK73FB2A912J	CHIP R	9.1K	

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
C34			CK73FB1H472K	CHIP C	K	
C35			CK73FF1C105Z	CHIP C	Z	
C41			CK73FB1H220J	CHIP C	J	
C42			CK73FB1H270J	CHIP C	J	
C43, 44			CK73FB1H102K	CHIP C	K	
C45			CK73FB1H103K	CHIP C	K	
C46			CK73FB1H220J	CHIP C	J	
C54, 55			CK73FB1H102K	CHIP C	J	
C56			CK73FB1H102K	CHIP C	J	
C57			CK73FF1C105Z	CHIP C	Z	
C58, 59			CK73FB1H103K	CHIP C	K	
C103, 104			CK73FF1C105Z	CHIP C	Z	
C105, 106			CK73FB1H102K	CHIP C	K	
C107, 108			CK73FB1H222K	CHIP C	K	
C109			CK73FB1H103K	CHIP C	K	
C110			CK73FB1H101J	CHIP C	J	
C121, 122			CK73FB1H101J	CHIP C	J	
C125			CK73FB1H103K	CHIP C	K	
C126			CK73FB1H101J	CHIP C	J	
C141			CK73FB1H101J	CHIP C	J	
C151, 152			CK73FF1C225Z	CHIP C	Z	
C153, 154			CK73FB1H101J	CHIP C	J	
C155, 156			CK73FF1C105Z	CHIP C	Z	
C157-160			CK73FF1C225Z	CHIP C	Z	
C161, 162			CK73FB1H222K	CHIP C	K	
C163, 164			CK73FB1H153K	CHIP C	K	
C165, 166			CK73FB1C334K	CHIP C	K	
C167, 168			CK73FF1C225Z	CHIP C	Z	
C169, 170			CK73FB1H222K	CHIP C	K	
C177-182			CK73FF1C225Z	CHIP C	Z	
C183			CK73FF1C105Z	CHIP C	Z	
C184			CK73FB1H221J	CHIP C	J	
C185, 186			CK73FB1E104K	CHIP C	K	
C187, 188			CK73FB1H102K	CHIP C	K	
C203, 204			CK73FF1C105Z	CHIP C	Z	
C205, 206			CK73FB1H102K	CHIP C	K	
C207, 208			CK73FB1H222K	CHIP C	K	
C209			CK73FB1H103K	CHIP C	K	
C210			CK73FB1H101J	CHIP C	J	
C251-256			CK73FB1H221J	CHIP C	J	
C303, 304			CK73FF1C105Z	CHIP C	Z	
C305			CK73FB1H182K	CHIP C	K	
C306			CK73FB1H682K	CHIP C	K	
C307			CK73FB1H222K	CHIP C	K	
C308			CK73FB1H622K	CHIP C	K	
C309			CK73FB1H103K	CHIP C	K	
C310			CK73FB1H101J	CHIP C	J	
C401-403			CK73FB1H103K	CHIP C	K	
C411-414			CK73FB1H220J	CHIP C	J	
C415-418			CK73FB1H101J	CHIP C	J	
C419			CK73FB1H100D	CHIP C	D	
C450			CK73FB1H103K	CHIP C	K	
C451			CK73FB1E104K	CHIP C	K	
C452			CE04LW1C222M	ELECTRO	16WV	
C453, 454			CK73FB1E104K	CHIP C	K	

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Ref. No	Add- ress	New Parts	Parts No.	Description	Desti- nation	Re- marks
R485			RK73FB2A102J	CHIP R	1/10W	
R501-503			RK73FB2A221J	CHIP R	220	
R505			RK73FB2A103J	CHIP R	10K	
R514			RK73FB2A101J	CHIP R	100	
R515			RK73FB2A221J	CHIP R	220	
R516			RK73FB2A103J	CHIP R	10K	
R517			RK73FB2A221J	CHIP R	220	
R518			RK73FB2A472J	CHIP R	4.7K	
R519			RK73FB2A221J	CHIP R	220	
R520-521			RK73FB2A103J	CHIP R	10K	
R522-523			RK73FB2A472J	CHIP R	4.7K	
R524			RK73FB2A333J	CHIP R	33K	
R527			RK73FB2A103J	CHIP R	10K	
R601			RK73FB2A820J	CHIP R	82	
R603			RK73FB2A820J	CHIP R	82	
R607			RK73FB2A820J	CHIP R	82	
R609			RK73FB2A104J	CHIP R	100K	
R610			RK73FB2A880J	CHIP R	68	
R611			RK73FB2A104J	CHIP R	100K	
R612			RK73FB2A880J	CHIP R	68	
R613			RK73FB2A1R0J	CHIP R	1	
R631-632		*	RK73FB2A881J	CHIP R	680	
R633-634			R92-1954-05	METAL GLAZE	100	
D1			DAN202J	DIODE		
D1			MA142WK	DIODE		
D1			1SS301	DIODE		
D2			DAP202J	DIODE		
D2			MA142WA	DIODE		
D2			1SS300	DIODE		
D3			DAN202J	DIODE		
D3			MA142WK	DIODE		
D3			1SS301	DIODE		
D6			MA111	DIODE		
D41			S1ZB20(4072)	DIODE		
D42-43			UDZ5.6B	ZENER DIODE		
D44			UDZ3.9B	ZENER DIODE		
D51-52			MA111	DIODE		
D61-62			UDZ5.6B	ZENER DIODE		
D75-76			MA111	DIODE		
D151-152			UDZ7.5B	ZENER DIODE		
IC1			NJM4565MD	IC(OP AMP X2)		
IC2		*	AK4527-VQ	MOS-IC		
IC4			TC7WU04FU	MOS-IC		
IC5		*	AK4110-VF	MOS-IC		
IC6		*	TC7WH123FU	MOS-IC		
IC11			NJM4565MD	IC(OP AMP X2)		
IC12			NJU7311AM	MOS-IC		
IC13			NJM4565MD	IC(OP AMP X2)		
IC14			NJU7311AM	MOS-IC		
IC15			M62446FP	ANALOGUE IC		
IC21			NJM4565MD	IC(OP AMP X2)		
IC31			NJM4565MD	IC(OP AMP X2)		
IC41		*	TC74HC07AF	MOS-IC		
IC42			TC74HCT7007AF	MOS-IC		

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R55-58			RK73FB2A221J	CHIP R	1/10W	
R59			RK73FB2A101J	CHIP R	220	
R66			RK73FB2A104J	CHIP R	100K	
R67			RK73FB2A103J	CHIP R	10K	
R68			RK73FB2A221J	CHIP R	220	
R101-102			RK73FB2A222J	CHIP R	2.2K	
R103-104			RK73FB2A104J	CHIP R	100K	
R107-108			RK73FB2A222J	CHIP R	2.2K	
R109-110			RK73FB2A103J	CHIP R	10K	
R111-112			RK73FB2A472J	CHIP R	4.7K	
R113-114			RK73FB2A221J	CHIP R	220	
R121-124			RK73FB2A103J	CHIP R	10K	
R125-126			RK73FB2A101J	CHIP R	100	
R127-128			RK73FB2A242J	CHIP R	2.4K	
R151-156			RK73FB2A100J	CHIP R	10	
R157-158			RK73FB2A102J	CHIP R	10K	
R159-164			RK73FB2A101J	CHIP R	100	
R165			RK73FB2A751J	CHIP R	750	
R166			RK73FB2A272J	CHIP R	2.7K	
R166-169			RK73FB2A1R0J	CHIP R	1	
R170-171			RK73FB2A471J	CHIP R	470	
R172-175			RK73FB2A473J	CHIP R	47K	
R201-202			RK73FB2A102J	CHIP R	10K	
R203-204			RK73FB2A104J	CHIP R	100K	
R207-208			RK73FB2A472J	CHIP R	4.7K	
R209-210			RK73FB2A272J	CHIP R	2.7K	
R211-212			RK73FB2A562J	CHIP R	5.6K	
R213-214			RK73FB2A221J	CHIP R	220	
R215-216			RK73FB2A472J	CHIP R	4.7K	
R217-218			RK73FB2A562J	CHIP R	5.6K	
R251-252			RK73FB2A153J	CHIP R	15K	
R253-254			RK73FB2A223J	CHIP R	22K	
R255-256			RK73FB2A103J	CHIP R	10K	
R257-258			RK73FB2A223J	CHIP R	22K	
R259-260			RK73FB2A103J	CHIP R	10K	
R261-262			RK73FB2A223J	CHIP R	22K	
R301			RK73FB2A223J	CHIP R	2.2K	
R302			RK73FB2A103J	CHIP R	10K	
R303-304			RK73FB2A104J	CHIP R	100K	
R307			RK73FB2A222J	CHIP R	2.2K	
R308			RK73FB2A123J	CHIP R	12K	
R309-310			RK73FB2A103J	CHIP R	10K	
R311-312			RK73FB2A472J	CHIP R	4.7K	
R313-314			RK73FB2A221J	CHIP R	220	
R401-406			RK73FB2A471J	CHIP R	470	
R407			RK73FB2A473J	CHIP R	47K	
R412			RK73FB2A221J	CHIP R	220	
R426-427			RK73FB2A221J	CHIP R	220	
R428			RK73FB2A1R0J	CHIP R	1	
R431-432			RK73FB2A103J	CHIP R	10K	
R450-453		*	R92-1945-05	METAL GLAZE	1	
R454		*	R92-1946-05	METAL GLAZE	4.7	
R461-462			RK73FB2A221J	CHIP R	220	
R463			RK73FB2A473J	CHIP R	47K	
R464			RK73FB2A472J	CHIP R	4.7K	

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# KRF-V4530D/V5030D/V6030D/VR-405/406/414

## PARTS LIST

\* New Parts  
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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
C48			CC73FCH1H101J	CHIP C	YMI	
C49			CE04RW0J331M	ELECTRO	YMI	
C50			CC73FCH1H101J	CHIP C	YMI	
C51			CE04RW1H2R2M	ELECTRO	ET	
C52		*	CK73FB1H103K	CHIP C		
C53			CC73FCH1H101J	CHIP C		
C54		*	CE04RW1H4R7M	ELECTRO		
C55			CC73FCH1H470J	CHIP C		
C56			CC73FCH1H220J	CHIP C		
C57			CC73FCH1H221J	CHIP C		
C58			CC73FCH1H470J	CHIP C		
C59			CK73FF1C105Z	CHIP C		
C106, 107			CC73FCH1H101J	CHIP C		
CN1		*	E40-8510-05	FLAT CABLE CONNECTOR		
CN2		*	E40-8504-05	FLAT CABLE CONNECTOR		
CN3			E40-3247-05	PIN ASSY		
CN5			E40-3261-05	PIN ASSY		
J1			E11-0272-05	PHONE JACK		
E5			J11-0808-05	WIRE CLAMPER		
X1		*	L78-0714-05	CRYSTAL RESONATOR(8MHZ)	ET	
X2			L77-2002-05	CRYSTAL RESONATOR(4.332MHZ)		
CP1			R90-0855-05	MULTI-COMP		
CP2, 3			R90-0482-05	MULTI-COMP		
CP501			R90-0855-05	MULTI-COMP		
CP502			R90-0850-05	MULTI-COMP		
R4			CK73FB2A102J	CHIP R		
R5			CK73FB2A103J	CHIP R		
R7			CK73FB2A104J	CHIP R		
R8			CK73FB2A102J	CHIP R		
R11			CK73FB2A223J	CHIP R		
R12			CK73FB2A331J	CHIP R		
R13, 14			CK73FB2A104J	CHIP R		
R15			CK73FB2A331J	CHIP R		
R29			CK73FB2A122J	CHIP R		
R31-33			CK73FB2A221J	CHIP R		
R36, 37			CK73FB2A104J	CHIP R		
R38-43			CK73FB2A103J	CHIP R		
R44-49			CK73FB2A101J	CHIP R		
R50			CK73FB2A272J	CHIP R		
R51			CK73FB2A102J	CHIP R		
R52, 53			CK73FB2A272J	CHIP R		
R54, 55			CK73FB2A103J	CHIP R		
R57, 58			CK73FB2A223J	CHIP R		
R59-63			CK73FB2A104J	CHIP R		
R64			CK73FB2A101J	CHIP R		
R65, 66			CK73FB2A103J	CHIP R		
R67			RD14NB2E222J	RD		
R69, 70			CK73FB2A103J	CHIP R		
R71, 72			CK73FB2A473J	CHIP R		
R83			CK73FB2A564J	CHIP R		
R86			RD14NB2E152J	RD		
R98			CK73FB2A104J	CHIP R		
R107-109			CK73FB2A104J	CHIP R		

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
IC45		*	TA48M05F	ANALOGUE IC		
IC46		*	TA48M033F	ANALOGUE IC		
IC47		*	TA48M025F	ANALOGUE IC		
IC51		*	CS493253-CLR	MOS-IC		
IC51		*	CS493263-CLR	MOS-IC		
IC61			NJM2279M	ANALOGUE IC		
Q1			DT124EUA	DIGITAL TRANSISTOR		
Q1			UN5212	DIGITAL TRANSISTOR		
Q15			2SD1664(Q,R)	TRANSISTOR		
Q15		*	2SD1963(R,S)-G	TRANSISTOR		
Q16			2SB1132(Q,R)	TRANSISTOR		
Q16		*	2SB1308(Q,R)-G	TRANSISTOR		
Q41			2SC4081(R,S)	TRANSISTOR		
Q42			2SD1819A(Q,R)	TRANSISTOR		
Q42			2SA1576A(R,S)	TRANSISTOR		
Q42			2SB1218A(Q,R)	TRANSISTOR		
Q61			2SD1664(Q,R)	TRANSISTOR		
Q61		*	2SD1963(R,S)-G	TRANSISTOR		
Q62			2SB1132(Q,R)	TRANSISTOR		
Q62		*	2SB1308(Q,R)-G	TRANSISTOR		
A1		*	W02-2716-05	OPTIC RECEIVING MODULE		
<b>DISPLAY (X14-7120-10)</b>						
D1		*	B30-2567-05	LED(RED)(80) HI-BR)		
D3 -5			B30-2545-05	LED(RED)(160)		
C1			CE04RW0J331M	ELECTRO	6.3WV	ETMXIY
C2			CK73FB1H103K	CHIP C	10WV	
C3			CE04RW1H101M	ELECTRO	50WV	
C4, 5			CE04RW1C100M	ELECTRO	16WV	
C6		*	CE04RW0J100M	ELECTRO	6.3WV	
C7			CK73FB1H103K	CHIP C	K	
C9			CK73FB1H470J	CHIP C	K	
C10 -19			CK73FB1H103K	CHIP C	K	
C20, 21			CK73FB1C104K	CHIP C	K	
C22			CK73FE1C105Z	CHIP C	10UF	
C23			CE04RW0J470M	ELECTRO	47UF	
C24			CE04RW0J470M	ELECTRO	47UF	
C25			CK73FB1H103K	CHIP C	0.010UF	
C26, 27			CK73FCH1H270J	CHIP C	0.10UF	
C28			CK73FCH1H561J	CHIP C	560PF	
C29			CK73FCH1H271J	CHIP C	270PF	
C30			CE04RW1V2R2M	ELECTRO	2.2UF	
C31		*	CK73FCH1H101J	CHIP C	100PF	
C32			CE04RW0J220M	ELECTRO	22UF	
C33-35			CK73FCH1H101J	CHIP C	100PF	
C36, 37			CK73FCH1H470J	CHIP C	47PF	
C38		*	CE04RW1H330M	ELECTRO	33UF	
C39			CK73FB1H103K	CHIP C	0.010UF	
C40			C90-1826-05	BACKUP-C	0.047F	
C41			CK73FB1H103K	CHIP C	0.010UF	
C42			CK73FCH1H101J	CHIP C	100PF	
C43, 44			CK73FCH1H470J	CHIP C	47PF	
C45, 46			CK73FCH1H101J	CHIP C	100PF	

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# KRF-V4530D/V5030D/V6030D/VR-405/406/414

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
Q6			UN5219	DIGITAL TRANSISTOR		
Q9 -11			UN5219	DIGITAL TRANSISTOR		
Q12, 13			2SA1576A(R,S)	TRANSISTOR		
Q14			DTA124EUA	DIGITAL TRANSISTOR		
Q14			UN5112	DIGITAL TRANSISTOR		
A1			W02-2625-05	OPTIC RECEIVING MODULE		

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### HOW TO READ THE PARTS LIST

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Abbreviation of Model and Mass Production's Destinations

MODEL	CHN	AUS	MEX	USA	UK	GER	CHN	IND	EU	GER	USA	Other area	Other area
KRF-V4530D	5	-	-	-	-	-	-	-	-	-	-	-	-
KRF-V5030D	5	-	-	-	-	-	-	-	-	-	-	-	-
KRF-V6030D	5	-	-	-	-	-	-	-	-	-	-	-	-
KRF-V6030D-S	5	-	-	-	-	-	-	-	-	-	-	-	-
KRF-V6030D	6	-	-	-	-	-	-	-	-	-	-	-	-
KRF-V6030D-S	6	-	-	-	-	-	-	-	-	-	-	-	-
VR-405	5	-	-	-	-	-	-	-	-	-	-	-	-
VR-406	6	-	-	-	-	-	-	-	-	-	-	-	-
VR-414	4	-	-	-	-	-	-	-	-	-	-	-	-
MODEL	CHN	AUS	MEX	USA	UK	GER	CHN	IND	EU	GER	USA	Other area	Other area
KRF-V4530D	5	-	-	-	-	-	-	-	-	-	-	-	-
KRF-V5030D	5	-	-	-	-	-	-	-	-	-	-	-	-
KRF-V6030D	5	-	-	-	-	-	-	-	-	-	-	-	-
KRF-V6030D-S	5	-	-	-	-	-	-	-	-	-	-	-	-
KRF-V6030D	6	-	-	-	-	-	-	-	-	-	-	-	-
KRF-V6030D-S	6	-	-	-	-	-	-	-	-	-	-	-	-
VR-405	5	-	-	-	-	-	-	-	-	-	-	-	-
VR-406	6	-	-	-	-	-	-	-	-	-	-	-	-
VR-414	4	-	-	-	-	-	-	-	-	-	-	-	-

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
R110			RK73FB2A1R0J	CHIP R	ET	
R111			RK73FB2A101J	CHIP R	ET	
R112			RK73FB2A473J	CHIP R	ET	
R113			RK73FB2A101J	CHIP R	ET	
R114			RK73FB2A104J	CHIP R	ET	
R118			RK73FB2A104J	CHIP R	ET	
R119-126			RK73FB2A101J	CHIP R	ET	
R127-129			RK73FB2A104J	CHIP R	ET	
R130			RK73FB2A102J	CHIP R	ET	
R141, 142			RK73FB2A104J	CHIP R	ET	
R143			RK73FB2A101J	CHIP R	ET	
R161, 162			RK73FB2A104J	CHIP R	ET	
R501, 502			RK73FB2A104J	CHIP R	ET	
W503			R92-0679-05	CHIP R	ET	
W505			R92-0679-05	CHIP R	ET	
W509			R92-0679-05	CHIP R	ET	
W514			R92-0679-05	CHIP R	ET	
S4 -18			S70-0031-05	TACT SWITCH	YMI	
S19			S68-0107-05	PUSH SWITCH	YMI	
S1			T99-0602-05	ROTARY ENCODER	ETX	
S2			T99-0630-05	ROTARY ENCODER	ETX	
D7			HZS6.2N(B2)	ZENER DIODE	ETX	
D8, 9			MTZJ6.2(B)	ZENER DIODE	ETX	
D11, 12			MA111	DIODE	ETX	
D13			HSS104A	DIODE	ETX	
D13			1SS133	DIODE	ETX	
D15, 16			MA111	DIODE	ETX	
D17-22			HSS104A	DIODE	ETX	
D24			1SS133	DIODE	ETX	
D27			HSS104A	DIODE	ETX	
D28			1SS133	DIODE	ETX	
D29			HSS104A	DIODE	ETX	
D30			1SS133	DIODE	ETX	
D33			HSS104A	DIODE	ETX	
D35, 36			1SS133	DIODE	ETX	
ED1			MA111	DIODE	ETX	
IC1			SVA-11MS22	FLUORESCENT INDICATOR TUBE	YMI	
IC2			MINIOTC35DRA	MI-COM IC	YMI	
IC3			S-80840ANY	ANALOGUE IC	YMI	
IC4			TA78057F	ANALOGUE IC	YMI	
IC5			BU1923F	ANALOGUE IC	YMI	
IC6			S-80840ANY	ANALOGUE IC	YMI	
Q1			XC62FP5102P	ANALOGUE IC	YMI	
Q2			2SC4081(R,S)	TRANSISTOR	YMI	
Q3 -5			2SA1576A(R,S)	TRANSISTOR	YMI	
Q3 -5			2SC4081(R,S)	TRANSISTOR	YMI	

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# KRF-V4530D/V5030D/V6030D/VR-405/406/414

## SPECIFICATIONS

### For U.S.A and Canada

#### AUDIO section (VR-407/406)

Rated power output during STEREO operation

100 watts per channel minimum RMS, both channels driven, at 8  $\Omega$  from 20 Hz (VR-407), 40Hz (VR-406) to 20 kHz with no more than 0.7% total harmonic distortion. (FTC)

Effective power output during SURROUND operation

FRONT (20-20kHz/VR-407, 40-20kHz/VR-406, 0.7% T.H.D. at 8 $\Omega$ one channel driven)	100 W + 100 W
CENTER (20-20kHz/VR-407, 40-20kHz/VR-406, 0.7% T.H.D. at 8 $\Omega$ one channel driven)	100 W
SURROUND (20-20kHz/VR-407, 40-20kHz/VR-406, 0.7% T.H.D. at 8 $\Omega$ one channel driven)	100 W + 100 W
Total harmonic distortion	0.055% (1 kHz, 50W, 8 $\Omega$ )
Frequency response	
CD	10 Hz ~ 53 kHz, +0 dB, -3.0 dB
Signal to noise ratio (IHF'66)	
PHONO (MM)	75 dB
CD	91 dB
Input sensitivity / impedance	
PHONO (MM)	2.5 mV / 27 k $\Omega$
CD	200 mV / 47 k $\Omega$
MONITOR IN (VR-406:VIDEO2/MONITOR)	200 mV / 47 k $\Omega$
Output level / impedance	
TAPE REC	200 mV / 1 k $\Omega$
MONITOR OUT (VR-406:VIDEO2/MONITOR)	200 mV / 1 k $\Omega$
PRE OUT (SUBWOOFER)	2 V / 2.2 k $\Omega$
Tone control	
BASS	$\pm 10$ dB (at 100 Hz)
TREBLE	$\pm 10$ dB (at 10 kHz)

#### AUDIO section (VR-405/414)

Rated power output during STEREO operation

80 watts (VR-405), 50watts (VR-414) per channel minimum RMS, both channels driven, at 8  $\Omega$  from 40 Hz to 20 kHz with no more than 0.7% total harmonic distortion. (FTC)

Effective power output during SURROUND operation

FRONT (40-20kHz, 0.7% T.H.D. at 8 $\Omega$ one channel driven)	80 W + 80 W (VR-405), 50 W + 50 W (VR-414)
CENTER (40-20kHz, 0.7% T.H.D. at 8 $\Omega$ one channel driven)	80 W (VR-405), 50 W (VR-414)
SURROUND (40-20kHz, 0.7% T.H.D. at 8 $\Omega$ one channel driven)	80 W + 80 W (VR-405), 50 W + 50 W (VR-414)
Total harmonic distortion	0.055% (1 kHz, 40W, 8 $\Omega$ )
Frequency response	
CD	10 Hz ~ 53 kHz, +0 dB, -3.0 dB
Signal to noise ratio (IHF'66)	
CD	91 dB
Input sensitivity / impedance	
CD	200 mV / 47 k $\Omega$
MONITOR IN (VIDEO2/MONITOR)	200 mV / 47 k $\Omega$
Output level / impedance	
TAPE REC	200 mV / 1 k $\Omega$
MONITOR OUT (VIDEO2/MONITOR)	200 mV / 1 k $\Omega$
PRE OUT (SUBWOOFER)	2 V / 2.2 k $\Omega$
Tone control	
BASS	$\pm 10$ dB (at 100 Hz)
TREBLE	$\pm 10$ dB (at 10 kHz)

#### DIGITAL AUDIO section

Sampling frequency	32 kHz, 44.1 kHz, 48 kHz, 96kHz
Input level / impedance / wave length	
Optical	(-15 dBm ~ -21 dBm), 660 nm $\pm 30$ nm
Coaxial	0.5 Vp-p / 75 $\Omega$

#### VIDEO section

##### VIDEO inputs / outputs

VIDEO (composite)	1 Vp-p / 75 $\Omega$
S VIDEO (VR-407 only)	
(luminance signal)	1 Vp-p / 75 $\Omega$
(chrominance signal)	0.286 Vp-p / 75 $\Omega$

##### FM tuner section

Tuning frequency range	87.5 MHz ~ 108 MHz
Usable sensitivity (MONO)	1.6 $\mu$ V (75 $\Omega$ ) / 15.2 dBf (75 kHz DEV., SINAD 30 dB)
50dB quieting sensitivity	
STEREO	31.6 $\mu$ V (75 $\Omega$ ) / 41.2 dBf
Total harmonic distortion (1 kHz)	
MONO	0.6% (65 dBf input)
STEREO	0.7% (65 dBf input)
Signal to noise ratio (1 kHz, 75 kHz DEV.)	
MONO	75 dB (65 dBf input)
STEREO	68 dB (65 dBf input)
Stereo separation (1 kHz)	38 dB
Selectivity ( $\pm 400$ kHz)	70 dB
Frequency response	(30 Hz ~ 15kHz), +0.5 dB, -3.0 dB

##### AM tuner section

Tuning frequency range	
10 kHz step	530 kHz ~ 1,700 kHz
Usable sensitivity (30% mod., S/N 20 dB)	16 $\mu$ V / (600 $\mu$ V/m)
Signal to noise ratio (30% mod. 1 mV input)	50 dB

#### GENERAL

Power consumption (VR-414)	2.3 A
(VR-405)	2.0 A
(VR-407/406)	2.6 A
AC outlet	
SWITCHED	(total 150 W, 1.25 A max.)
Dimensions	W : 440 mm (17-5/16")
	H : 143 mm (5-5/8")
	D : 400 mm (15-3/4")
Weight (Net)	7.2 kg (15.8 lb)

#### Notes

1. KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.
2. The full performance may not be exhibited in an extremely cold location (under a water-freezing temperature).

# KRF-V4530D/V5030D/V6030D/VR-405/406/414

## SPECIFICATIONS

### For other countries

#### AUDIO section (KRF-V7030D/V6030D)

Effective power output during STEREO operation  
1 kHz, 10% T.H.D., at 8  $\Omega$  ..... 140 W + 140 W  
Rated power output during STEREO operation

100 watts per channel minimum RMS, both channels driven, at 8  $\Omega$  from 40 Hz (KRF-V6030D), 20 Hz (KRF-V7030D) to 20 kHz with no more than 0.7% total harmonic distortion.(FTC)

Effective power output during SURROUND operation  
FRONT (1kHz, 10% T.H.D. at 8  $\Omega$  one channel driven) ..... 140 W + 140 W  
CENTER (1kHz, 10% T.H.D. at 8  $\Omega$  one channel driven) ..... 140 W  
SURROUND (1kHz, 10% T.H.D. at 8  $\Omega$  one channel driven) ..... 140 W + 140 W  
Total harmonic distortion ..... 0.055% (1 kHz, 50W, 8  $\Omega$ )  
Frequency response  
CD ..... 10 Hz ~ 50 kHz, +0 dB, -3.0 dB  
Signal to noise ratio (IHF'66)  
PHONO (MM) ..... 75 dB  
CD ..... 91 dB  
Input sensitivity / impedance  
PHONO (MM) ..... 2.5 mV / 27 k $\Omega$   
CD ..... 200 mV / 47 k $\Omega$   
MONITOR IN (KRF-V6030D:VIDEO2/MONITOR) ..... 200 mV / 47 k $\Omega$   
Output level / impedance  
TAPE REC ..... 200 mV / 1 k $\Omega$   
MONITOR OUT (KRF-V6030D:VIDEO2/MONITOR) ..... 200 mV / 1 k $\Omega$   
PRE OUT (SUBWOOFER) ..... 2 V / 2.2 k $\Omega$   
Tone control  
BASS (For Australia and U.S-Military) .....  $\pm 10$  dB (at 100 Hz)  
BASS (Other countries) .....  $\pm 10$  dB (at 60 Hz)  
TREBLE .....  $\pm 10$  dB (at 10 kHz)

#### AUDIO section (KRF-V5030D)

Effective power output during STEREO operation  
(1 kHz, 10%, 8 $\Omega$ ) ..... 110 W + 110 W

80 watts channel minimum RMS, both channels driven, at 8  $\Omega$  from 40 Hz to 20 kHz with no more than 0.7% total harmonic distortion. (FTC)

Effective power output during SURROUND operation  
FRONT (1kHz, 10% T.H.D. at 8  $\Omega$  one channel driven) ..... 110 W + 110 W  
CENTER (1kHz, 10% T.H.D. at 8  $\Omega$  one channel driven) ..... 110 W  
SURROUND (1kHz, 10% T.H.D. at 8  $\Omega$  one channel driven) ..... 110 W + 110 W  
Total harmonic distortion ..... 0.055% (1 kHz, 40W, 8  $\Omega$ )  
Frequency response  
CD ..... 10 Hz ~ 53 kHz, +0 dB, -3.0 dB  
Signal to noise ratio (IHF'66)  
PHONO (MM) ..... 73 dB  
CD ..... 91 dB  
Input sensitivity / impedance  
PHONO (MM) ..... 2.5 mV / 27 k $\Omega$   
CD ..... 200 mV / 47 k $\Omega$

MONITOR IN (VIDEO2/MONITOR) ..... 200 mV / 47 k $\Omega$   
Output level / impedance  
TAPE REC ..... 200 mV / 1 k $\Omega$   
MONITOR OUT (VIDEO2/MONITOR) ..... 200 mV / 1 k $\Omega$   
PRE OUT (SUBWOOFER) ..... 2 V / 2.2 k $\Omega$   
Tone control  
BASS (For Australia and U.S-Military) .....  $\pm 10$  dB (at 100 Hz)  
BASS (Other countries) .....  $\pm 10$  dB (at 60 Hz)  
TREBLE .....  $\pm 10$  dB (at 10 kHz)

#### DIGITAL AUDIO section

Sampling frequency ..... 32 kHz, 44.1 kHz, 48 kHz, 96kHz  
Input level / impedance / wave length  
Optical ..... (-15 dBm ~ -21 dBm), 660 nm  $\pm 30$ nm  
Coaxial ..... 0.5 Vp-p / 75  $\Omega$

#### VIDEO section

VIDEO inputs / outputs  
VIDEO (composite) ..... 1 Vp-p / 75  $\Omega$   
S VIDEO (KRF-V7030D only)  
(luminance signal) ..... 1 Vp-p / 75  $\Omega$   
(chrominance signal) ..... 0.286 Vp-p / 75  $\Omega$

#### FM tuner section

Tuning frequency range ..... 87.5 MHz ~ 108 MHz  
Usable sensitivity (MONO)  
..... 1.6  $\mu$ V (75  $\Omega$ ) / 15.2 dBf (75 kHz DEV., SINAD 30 dB)  
50dB quieting sensitivity  
STEREO ..... 31.6  $\mu$ V (75  $\Omega$ ) / 41.2 dBf  
Total harmonic distortion (1 kHz)  
MONO ..... 0.6% (65 dBf input)  
STEREO ..... 0.7% (65 dBf input)  
Signal to noise ratio (1 kHz, 75 kHz DEV.)  
MONO ..... 75 dB (65 dBf input)  
STEREO ..... 68 dB (65 dBf input)  
Stereo separation (1 kHz) ..... 38 dB  
Selectivity ( $\pm 400$  kHz) ..... 50 dB  
Frequency response ..... (30 Hz ~ 15kHz), +0.5 dB, -3.0 dB

#### AM tuner section

Tuning frequency range  
9 kHz step ..... 531 kHz ~ 1,602 kHz  
10 kHz step ..... 530 kHz ~ 1,610 kHz  
Usable sensitivity ..... 16  $\mu$ V / (600  $\mu$ V/m)  
Signal to noise ratio (30% mod. 1 mV input) ..... 50 dB

#### GENERAL

Power consumption  
KRF-V5030D ..... 190 W  
KRF-V7030D/V6030D ..... 250 W  
AC outlet  
SWITCHED ..... (total 90 W max.)  
Dimensions ..... W : 440 mm  
H : 143 mm  
D : 400 mm  
Weight (Net)(KRF-V7030D/V6030D) ..... 7.4 kg  
(Net)(KRF-V5030D) ..... 7.2 kg

#### Notes

1. KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.
2. The full performance may not be exhibited in an extremely cold location (under a water-freezing temperature).

# KRF-V4530D/V5030D/V6030D/VR-405/406/414

**Note:**

Component and circuit are subject to modification to insure best operation under differing local conditions. This manual is based on Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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